The accompanying comparison charts summarize the characteristics of 184 commercially available alphanumeric display terminals from 74 vendors. Nearly all of the information was supplied by the manufacturers during the months of January and February 1976. Their cooperation is acknowledged and greatly appreciated.

Datapro sent repeated requests for information to more than 80 companies known or believed to be in the display terminal business. The 74 usable responses summarized in our charts provide a comprehensive picture of the commercial display terminals that are currently available in the United States and Canada. The absence of any specific company from our charts means that the company either failed to respond to our repeated information requests or was unknown to us.

The chart entries and their significance are explained in the following paragraphs.

Part 1 — Left hand page

Terminal Description

The industry trend toward "intelligent" terminals is indicated by the growing number of terminals with

A discussion of the important basic characteristics of display terminals plus a summary of the characteristics of 184 commercially available alphanumeric display terminals from 74 vendors. A two-page comparison chart format permits inclusion of extensive information on each product.

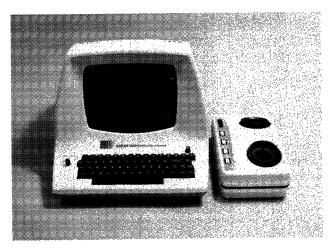
For a perspective of display terminals, including comprehensive user rating information, see Report C09-025-101 behind the Management/System Guides tab in Volume 1.

control and user functions implemented through some type of processor. The *processor control* entry includes a wide range of arrangements from simple microprocessor-based terminals to complex display-oriented minicomputer systems. (Terminals that do not contain a processor as their nucleus are hard-wired units that are often referred to as "dumb" terminals, because their functions cannot be changed and little flexibility is offered.)

Since all processors require memory for program and data storage, the *memory range* in *bytes* is provided to define



Designed as a replacement for Teletype's Model 40, the microprocessor-based ICC 40+ has all the bells and whistles, and features a removable CRT that can be tilted and swiveled for operator viewing convenience. The manufacturer, ICC/Milgo, is a leading modem vendor.



For just \$65 per month (on a one-year lease), you can get your "glass teleprinter" from Western Union Data Services. As WU's initial display terminal offering, the Video 100 (a Lear Siegler ADM-3) provides Teletype compatibility and features a 12-inch screen that can display 960 or 1920 characters. The Video 100 is available with an acoustic telephone coupler, teleprinter, and cassette tape drive.

the minimum and maximum memory capacity of an expanded memory. In microprocessor-based terminals, memory is usually composed of read-only memory (ROM) and/or programmable read-only memory (PROM) for microprogram storage and random access memory (RAM) for data storage.

Display terminals are available in one of two basic terminal configurations: stand-alone and cluster. Stand-alone units are typically those that contain all components that support the operation of the terminal including display, keyboard, interface, and power supply within a single cabinet. Auxiliary units such as printers, cassette tape drives, etc., are usually external devices. Sometimes a stand-alone unit includes separate cabinets for terminal control and keyboard/display sections, and it may even include one or two separate displays. A cluster configuration typically includes a terminal control unit of individual cable-connected number and keyboard/display units, which can often be located several thousand feet from the controller. In some cases, the vendor provides a multiplexer that accommodates a cluster of stand-alone terminals. A local cluster arrangement refers to a terminal that can be attached directly to a computer I/O channel and can operate as an on-line peripheral subsystem. A remote cluster arrangement refers to a terminal that is connected to the host computer via a communications facility. The size of a cluster arrangement is defined by the entries: maximum number of displays per controller, maximum number of printers per controller, and maximum number of devices (including displays and printers) per controller. In many cases displays and printers can be combined in any mix on the same controller. Cluster configurations that can accommodate any mix of screen sizes on the same controller are noted.

Local cluster arrangements must provide a computer interface to attach to the I/O channel of the host

computer. Because most terminals are equipped with an RS-232 interface, they can be directly attached to many minicomputers with such a serial I/O interface.

Terminals that are designed to be hand-carried in a suitcase-like enclosure are noted in the entry portable case.

Compatibility

Some terminals are designed as direct replacements for other terminals. In the alphanumeric display terminal market, replacement terminals fall into four principal categories: those designed to replace an IBM 3270 and/or 3275, those designed to replace an IBM 2260 and/or 2265, those designed to replace a Teletype Model 33 and 35 teleprinter, and those designed to replace a Teletype Model 40 display terminal. Some vendors provide compatibility with other terminals such as those produced by Burroughs, Honeywell, and UNIVAC. Datapro included these five entries to define the category of compatibility. Compatibility requirements include identical protocol, code and unit code structure, timing, asynchronous or synchronous operation, and transmission speed. Some vendors even provide identical cables, which is a cost-effective consideration in a local cluster environment. At least two vendors (Genesis One and Memorex) provide compatible replacements for only the display station in an IBM 3270 cluster environment.

Programmability

Programmability for processor-controlled terminals can be implemented via a combination of different techniques. The entry user-created programs defines the capability for the terminal to operate under the direction of a user-created application program stored within the terminal. This requires the provision of an assembly-like language at the very least. Programmability via user-define parameters refers to the use of fixed programs, such as a data entry program where the user defines field length and type, duplication, skipping, etc. Microprocessor-based terminals are controlled via a microprogram (firmware), which is stored in the unit's ROM. Usually, the terminal operates under the control of vendor-defined firmware, but in some cases the vendor permits the user to define or create the microprograms, hence the entry user-defined firmware. Any vendor-supplied software is noted, such as emulators, assemblers. operating systems, generally terminals are Minicomputer-based software-supported and usually provide at least an assembly language for users to create application programs. The entry software pricing identifies the vendor-supplied software as standard (supplied with the basic terminal at no extra cost) or extra cost.

Display Organization

Printed information is generally arranged according to an orderly format consisting of a maximum number of printed lines per page and characters per line. This orderly

arrangement is also used to characterize the arrangement of data display on the face of a CRT screen or other display device. The electronic circuitry that produces the display image is designed to a specified set of parameters that define the capacity (i.e., the maximum number of display positions) and the display format (i.e., the maximum number of displayable lines and displayable characters per line). Information is displayed in a rectangular area smaller than the total surface area of the display device. The factors that determine the required size of the display area are the display arrangement and the size of the displayable characters, which is normally a fixed parameter.

Symbol formation and the set of displayable sumbols are functions of the character generator, which accepts coded characters (typically ASCII) from the computer and keyboard and converts them to a number of dots or strokes so that the form of the symbol or image can be displayed. In CRT's, characters are formed by a variety of techniques, including dots, strokes, starburst, or monoscope. The dot technique is by far the most popular. Each character is formed within a matrix of dots, and only those dots required to form the specific character are intensified. Typically, a dot matrix contains 35 dots arranged 7 dots high by 5 dots wide. Characters can be made clearer by increasing the number of dots within the matrix. The stroke technique forms characters by drawing short straight lines between specified points.

Solid-state display devices, such as plasma (gas) and LED (Light Emitting Diodes) are gaining popularity, but at present are generally limited to small display capacities consisting of a few characters. These typically form a character image in much the same way as a CRT display (i.e., via a dot matrix), though some form symbols through line segments.

Display Features

Attention can be drawn to vital information and different types of significant data can be visually separated by the use of the following display features:

- Color—characters or fields can be separated by color, which can also be used to identify conditions or types of data. Few display terminals offer color, primarily due to cost, but the few that do offer up to eight colors.
- Reverse video—displays a negative image of data, i.e., data normally displayed in white on a dark background is displayed in black on a white background. Characters or fields can be displayed in reverse video.
- Programmable brightness levels—visually separates different kinds of displayed information by displaying each type of a different intensity level, such as a fixed format and the entered data.

• Character and/or field blinking—vital information consisting of a single character or an entire field is blinked to attract attention.

Some terminals offer several of these display features, which can be combined to produce even more effective results.

Some applications require viewing more data than can be displayed at one time. The following features satisfy this need:

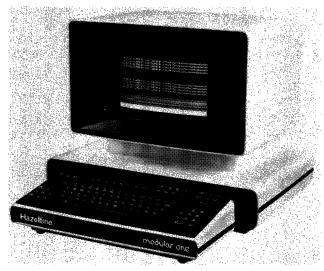
- Roll (or scroll)—this feature moves all displayed lines of data up or down by one line as a new line is added and an existing one removed. In some cases, the first line is linked with the last so that the data is rolled but not lost. Typically, data is lost as it rolls off the screen. This feature permits the user to scan through a volume of data to locate key information.
- Paging—this feature stores two or more frames or pages of data and displays any selected page.

Although roll and paging features can be software implemented in the host computer, the comparison chart entry applied to *only* those terminals that implement the features via hardware or firmware.

Many terminals provide the roll feature, but few provide paging. Some provide both features.

Cursor Control

The cursor marks the position on the screen where the next character will be read or written from memory. Cursor controls enable the operator to maneuver the cursor on the screen and facilitate the input and output of data. Typical cursor controls include:



Brand new from Hazeltine is the microprocessor-based Modular One. Priced at a startlingly low \$1,420 (base price for 1 to 50 units), with quantity discounts available, the terminal has a standard 1920-character screen and offers a host of options, including a polling feature with user-defined protocol.



Control Data's new, microprocessor-based Model 92451 Conversational Display provides Teletype Model 33/35 compatibility and features a 960- or 1920-character screen and a host of options. Auxilary devices include a single- or dual-drive diskette or cassette tape unit and a 180-cps impact or 30-cps non-impact printer. The OEM base price is \$2,000; quantity discounts are available.

- ▶ Move left (L)—moves the cursor one space to the left, which can be from the initial character position of a line to the last character position of the previous line if the terminal features wraparound.
 - Move right (R)—moves the cursor one space to the right, which can be from the last character position of a line to the first character position of the next line if the terminal features wraparound.
 - Move up (U)—moves the cursor to the same position on the previous line, which can be from the first line to the last line if the terminal features wraparound.
 - Move down (D)—moves the cursor to the same position on the following line, which can be from the last line to the first line if the terminal features wraparound.
 - Home top (H)—moves the cursor to the initial character position of the first line.
 - Home bottom—moves the cursor to the initial character position of the last line.
 - Tab—moves the cursor forward to the next tab stop or backward to the previous tab stop (backtab).
 - Return (RT)—moves the cursor to the initial character position of the next line; this is identical to the carriage return function of a typewriter.
 - Backspace—moves the cursor one space to the left.

• Line Feed—moves the cursor to the same position on the following line.

Some cursors blink, others keep moving as long as the control key remains depressed. All cursors should be of the nondestructive type. Different manufacturers use a variety of symbols to indicate the cursor position on the screen. Some terminals also have addressable/readable cursors, which enable the position of the cursor to be written or read by the host computer under program control.

Format Control

Most businesses use printed forms for daily activities such as billing, ordering, payroll, etc. Some CRT terminals can duplicate the printed form on the face of the screen, and data can be keyed into the blank spaces just as the typist enters data into a printed form. This "fill-in-the-blanks" approach to data entry requires a protected format capability. Display terminals that incorporate this feature treat the fixed format differently from keyed data. Field identifiers such as "name" or "salesman number" are protected from inadvertent key entry, and data entry is confined to the variable fields (blank spaces) following the field identifiers. Some terminals automatically tab to the beginning of the next variable field immediately following the entry of the character that completes each field. The tab key is used where a field is partially filled.

Some terminals permit format creation via the keyboard; i.e., the fixed format can be keyed and edited on the screen before it is stored in the terminal's memory or on cassette tape, diskette, or hard disk. Depending on memory size, multiple formats can be stored. Of course, format storage on magnetic media is virtually unlimited.



Plantronic's VuSet, available from the Bell System for \$35 per month, provides a 3-inch CRT that displays any of 64 characters in up to 64 display positions. It's intended for applications that involve short messages such as account status, sales statistics, customer balances, etc. The VuSet attaches to any Touch-Tone telephone, which is used to call the computer and to enter data; a VuSet modem is required at the computer end.



Designed for the traveler, Digi-Log's TeleComputer is an attache-encased terminal that includes a 5-inch display, keyboard, and acoustic telephone coupler. It's Teletype-compatible, weighs less than 25 pounds, and sells for \$1,470, with a 14 percent discount for 100-unit quantities. A 12-inch monitor is also available.

Having completed entry into the fixed format, the operator transmits the data to the central computer. A feature called partial screen transmit promotes line economies by transmitting only the keyed data; the fixed format remains displayed and the "blanks" are erased for the next entry. This feature is also useful for transmitting only a portion of the displayed data such as a field, line, or block.

Editing features in a display terminal can consist of any combination of the functions listed below, although the best terminal for editing purposes would include all of them. Each function is performed with respect to the current position of the cursor. The desirable editing functions are:

- Character insert—the capability to insert a character into an existing line of displayed text; the remaining characters shift to the right or "spread" to accommodate the added character. The spreading capability may terminate at the last character position of the line or at the last displayable position on the screen. Data is lost when it is spread beyond the termination point.
- Character delete—the capability to delete a character from an existing line of displayed text; the remaining text closes up when the character is deleted.
- Line insert—the capability to insert a line of text into existing text; the text spreads to accommodate the added line.
- Line delete—the capability to delete a line of text from existing text; the remaining text closes up when the line is deleted.

- Erase—the capability to erase a character, line of text, message, field, or the complete screen. Most terminals include character erase and some form of display erase, which may erase the entire contents of the display, just that portion following the cursor location, or a combination of both functions. *Line* erase is optional in many terminals.
- Character repeat—enters a continuous sequence of symbols as long as the appropriate key remains depressed.

Keyboard

Keyboard style defines the general arrangement of keys; e.g., typewriter or data entry style. The character/code set refers to the set of symbols that appear on the keytops and, in many cases, to the actual character codes generated for each key depression, such as ASCII, EBCDIC, APL, etc. Some terminals are available with more than one keyboard style to satisfy particular user needs.

Keyboards that can either fit flush against the display or be located some distance away via cable connection are referred to as *detachable* keyboards. This feature provides increased configuration flexibility and operator convenience.

Some terminals are available with program function keys. These are special keys whose character codes are interpreted by the user's program. A function key is used to reduce the number of required input keystrokes to save time and reduce the number of input errors. Depressing one key could instruct the system to "sell one seat" or "call Chart A," for example.

Most keyboards are equipped with curosr control keys and edit function keys to permit the operator to manipulate the cursor and edit keyed data before it is transmitted and/or recorded.

A numeric keypad is a special keyboard feature that includes a set or block of 10 numeric keys, usually located to the right of the main keygroup. These numeric keys are arranged in an adding-machine format and are particularly useful for applications that require a high volume of numeric entries or arithmetic calculations.

Part 2—Right hand page

Operator Features

Special operator oriented features are provided by some terminals, especially those that emulate the IBM 3270, which has all of the following:

 Numeric lock—locks the keyboard in numeric mode so that only numerics can be entered.

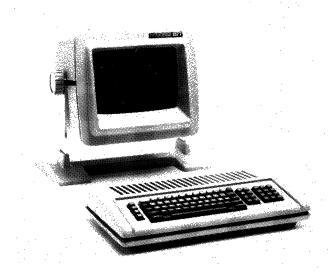
- Audible alarm—alerts an operator absent from the terminal to a pending message.
 - Keylock—electronically locks the terminal to prevent operator control.
 - Operator I.D. card reader—a device that reads magnetic stripe identification cards (similar to a plastic storage card) to insure proper user identification for security purposes.
 - Light pen—a hand-held device similar to a pen that permits the user to initiate commands or to "call for" a page of data by pointing the pen at a displayed entry.

Ancillary Devices

External I/O devices can add considerable flexibility to the applications possibilities for display terminals. A cassette tape drive or diskette drive can be used to store display formats, data to be transmitted, or user programs in the case of intelligent terminals. A serial printer provides hard copy when required.

These devices can usually be added to a terminal by the user via the terminal's RS-232 serial interface. The device is attached between the terminal and the external modem.

Although the above I/O devices are the most common, other devices can be and are used, such as industry-compatible 7- or 9-track magnetic tape drives, disk drives (cartridge or pack type), line printers, card readers, etc.



Memorex recently announced its presence with its new 1377, an attractive plug-to-plug replacement for the IBM 3272-2 Display Station. The Memorex 1377 plugs into an IBM local or remote (BSC or SDLC) control unit, can use existing IBM cables, and displays up to 1920 characters. Features include a non-glare tiltable screen, a detachable 78-key typewriter or operator console keyboard, upper and lower case alphabetics, and a selector light pen in addition to all IBM features. The Memorex 1377 can be used in both the IBM 3270 and 3790 systems. It weighs just 49 pounds including keyboard.

Transmission Parameters

The display terminal contains a communications interface that enables communications between the terminal and the central computer site. Mode and technique define the operating mode and the method in which data is transmitted. There are three operating modes: simplex (transmission in one direction only), half duplex (transmission both directions, but not simultaneously), and full duplex (simultaneous transmission in both directions).

Data is transmitted synchronously or asynchronously. Asynchronous transmission is characterized by the transmission of data in irregular spurts, where the duration of time can vary between successive transmitted characters; the transmission from an unbuffered teletype-writer is a good example. Synchronous transmission implies the transmission of data in a steady stream. The time interval between successive characters is always precisely the same. The communications interface either provides clocking or accepts external clocking signals from the data set.

Communications protocol refers to the type of line discipline (control code sequence and control characters) that the terminal employs. The two most commonly used protocols are ASCII and IBM's Binary Synchronous Communications (BSC) technique. IBM's latest protocol, Synchronous Data Line Control (SDLC), will be widely used in the future. Other large mainframe vendors such as Burroughs, Honeywell, and Digital Equipment Corporation (DEC) have produced their own communications protocols.

The transmission code refers to the bit pattern of the transmitted characters. Two codes are prominent: EBCDIC and ASCII. The latter has been accepted as an industry and government standard, and is now the most commonly used code by display terminals.

The unit code structure specifies the total number of bits transmitted for each character. Asynchronous operating conventions require a single start bit and one or two stop bits to be combined with the character code for each transmitted character; therefore, an 8-level code such as ASCII is transmitted as a 10- or 11-unit code. Following Teletype's lead, the 11-unit code structure has been generally adopted for transmission at 10 characters per second; 10-unit codes are typically used at higher operating speeds.

The CRT terminal is a high-speed device that is usually capable of transmitting and receiving several thousand characters per second; however, it must run at a speed that is compatible with the communications system in which it used. Most terminals are used on voice-grade facilties, which limit the *transmission speed* to a practical maximum of 4800 bits per second over the dial network and 9600 bits per second over leased or private lines.

 \triangleright

Terminals that are capable of operating at more than one transmission speed typically feature *operator selectable* speeds via switch selection.

Message format refers to the way data is transmitted, e.g., by block or by character. Terminals that are designed to be transmission-compatible with a Teletype unit transmit a character for each key depression. Buffered terminals transmit data in multi-character blocks. The line or block mode permits data to be composed and edited prior to each transmission and generally permits more efficient utilization of the communications facility. Some terminals offer manual selection between the modes.

Transmission Features

Multipoint operation characterizes terminals that are capable of operating in a multiple-terminals-per-line environment such as that employed by the IBM 3270 and 2260/2265 display terminals. Basic to implementing this capability is the ability of a terminal to distinguish a control message intended for it alone. Polling invites the terminals to send data. Addressing informs the terminal that a message from the central computer is coming, so that it will be conditioned to receive. Central control of the message traffic is maintained by the central computer.

Automatic answer refers to the facility for unattended operation on the dial network whereby incoming calls are automatically answered and messages are received without human intervention.

Auto call refers to the facility for unattended operation on the dial network whereby outgoing calls are automatically "dialed" and messages are transmitted without human intervention.

Terminal Interface

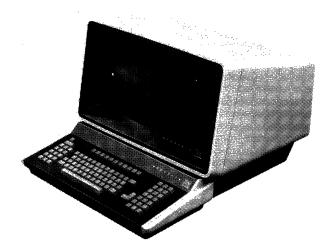
Display terminals usually have interfaces meeting the standards of the EIA RS-232B/C specification and connect to an external modem or acoustic telephone coupler.

Line Interface

Some terminals contain an *integral modem* that can be connected directly to a communications line. In some cases the vendor provides an *acoustic telephone coupler*, so that the terminal can be connected to a conventional telephone handset, or makes available a separate *external modem*.

Diagnostics

The entry self diagnostics denotes the terminal's capability to identify failures via self-generated test procedures. Failures are typically indicated by displayed test patterns or by indicator lamps. Self-diagnostics are typically performed while the terminal is in the off-line mode.



The new Megadata System 700 is a user-programmable terminal that incorporates a 12-bit minicomputer (similar to the DEC PDP-8E) with up to 64K bytes of user memory. Programming is performed in assembly language. The standard 1920-character screen displays 64 to 256 different characters via a programmable character generator. A host of peripherals is available, and all are program-controlled. The base price is \$2,995, with quantity discounts available.

On-line diagnostics denotes failure analysis of the terminal via diagnostic procedures generated by an external source, such as the host computer.

Off-line diagnostics denotes failure analysis of the terminal performed via diagnostic procedures while the terminal is in the off-line mode.

Pricing

Terminal pricing is provided for unit quantities (one terminal) unless otherwise specified. One, two, and three year leases (where applicable) and purchase prices are shown for the display station, serial printer, and terminal controller. Purchase prices are also provided for optional software. Quantity discounts are noted when available.

Single entries generally indicate the price of the basic unit without options; price ranges show the price of the basic unit and the price of an expanded unit with all options. In some cases, the terminal vendor offers a lease term other than those shown, such as a 4- or 5-year lease or a 30- or 60-day, short-term rental. In such cases, the lease prices and terms appear in the Comments at the bottom of the charts.

Many terminal vendors do not lease their equipment, and in these cases you'll find dashes in the lease price entries. Also, a number of terminal makers sell their wares on an OEM basis only, for incorporation into systems supplied by other vendors.

Availability

Date of first production delivery indicates when the first production model of each terminal was delivered (or is scheduled to be delivered) to a customer.



Here's an example of the use of partial reverse video (dark characters on light background) and formatted operation. The Tektronix 4023 is a general-purpose alphanumeric terminal with a 12-inch CRT, capable of displaying up to 1920 characters. Options include the Ruling Character Set (shown above as the solid horizontal and vertical lines), a hard-copy unit (Model 4023), and a cartridge tape drive (Model 4923). Tektronix is a leading vendor of graphic display terminals.

Display units installed to date shows how many display units of each type has been delivered to customers as of approximately June 1, 1976. All figures were supplied by the vendors themselves, and a number of companies chose not to release this information.

Serviced by specifies the party responsible for maintaining the terminal. In some cases the vendor provides total service; in others a national service organization is responsible. Service is sometimes rendered under the combined efforts of both the vendor and an independent service organization; usually in this situation, the vendor handles those areas close to his headquarters or where it has a multiplicity of installations, and the service company handles other geographical areas.

Number of service locations specifies the total number of service points nationwide that provide customer service for the terminal.

Comments

Comments at the bottom of the charts describe significant or unusual features, capabilities, or applications which are not reflected in the standard entries.

Manufacturers

Listed below, for your convenience in obtaining additional information, are the full names and addresses of the 74 vendors whose products are summarized in the comparison charts.

Ann Arbor Terminals, Inc., 6107 Jackson Road, Ann Arbor, Michigan 48103. Telephone (313) 769-0926.

Applied Digital Data Systems, Inc., 100 Marcus Boulevard, Hauppauge, New York 11787. Telephone (516) 231-5400.

Beehive Terminals, 870 West 2600 South, PO Box 19244, Salt Lake City, Utah 84119. Telephone (801) 487-0741.

Bunker Ramo Corporation, Trumbull Industrial Park, Trumbull, Connecticut 06609. Telephone (203) 377-4141.

Burroughs Corporation, Business Machines Group, Room 2A38, Burroughs Place, Detroit, Michigan 48232. Telephone (313) 972-9115.

Computek, Inc., 143 Albany Street, Cambridge, Massachusetts 02139. Telephone (617) 864-5140.

Computer Communications, Inc., 2610 Columbia Street, Torrance, California 90503. Telephone (213) 320-9101.

Computer Optics, Inc., Berkshire Industrial Park, Bethel, Connecticut 06801. Telephone (203) 744-6720.

Conrac Corporation, Conrac Division, 600 N. Rimsdale Avenue, Covina, California. Telephone (213) 966-3511.

Control Data Corporation, 8100 34th Avenue South, Minneapolis, Minnesota 55420. Telephone (612) 853-4656.

Courier Terminal Systems, Inc., 2202 E. University Drive, Phoenix, Arizona 85034. Telephone (602) 244-1392.

Data General Corporation, Route 9, Southboro, Massachusetts, 01770. Telephone (617) 485-9100.

Data 100 Corporation, 7725 Washington Avenue South, Minneapolis, Minnesota 55435. Telephone (612) 941-6500.

Data Pathing, Inc., 370 San Alesco Avenue, Sunnyvale, California 94086. Telephone (408) 734-0100.

Datamedia Corporation, 7300 N. Crescent Boulevard, Pennsauken, New Jersey 08110. Telephone (609) 665-2382.

Datapoint Corporation, 9725 Datapoint Drive, San Antonio, Texas 78284. Telephone (512) 696-4520.

Delta Data Systems Corporation, Woodhaven Industrial Park, Cornwells Heights, Pennsylvania 19020. Telephone (215) 639-9400.

Digi-log Systems, Inc., Babylon Road, Horsham, Pennsylvania 19044. Telephone (215) 672-0800.

Digital Equipment Corporation, 146 Main Street, Maynard, Massachusetts 01754. Telephone (617) 897-5111.

Four-Phase Systems, Inc., 19333 Vallco Parkway, Cupertino, California 95014. Telephone (408) 255-0900.

Genesis One Computer Corporation, 300 East 44th Street, New York, New York 10017. Telephone (212) 557-3500.

Goodwood Data Systems, Ltd. (formerly I.P. Sharp Associates, Ltd.), PO Box 1900, 150 Rosamond Street, Carleton Place, Ontario, Canada K0A 1J0. Telephone (613) 257-3610.

GTE Information Systems, Inc., One Stamford Forum, Stamford, Connecticut 06904. Telephone (203) 357-2000.

Hazeltine Corporation, Greenlawn, New York 11740. Telephone (516) 261-7000.

Hendrix Electronics, Inc., 645 Harvey Road, Manchester, New Hampshire 03103. Telephone (603) 669-9050.

Hewlett-Packard, 1501 Page Mill Road, Palo Alto, California 94304. Telephone (415) 493-1501.

Honeywell Information Systems, Inc., 60 Walnut Street, Wellesley Hills, Massachusetts 02181. Telephone (617) 237-4100.

International Business Machines Corporation (IBM), Data Processing Division, 1133 Westchester Avenue, White Plains, New York 10604. Telephone (914) 696-1900.

Incoterm Corporation, 65 Walnut Street, Welleslay, Massachusetts 02181. Telephone (617) 237-2100.

Informer, Inc., 2218 Cotner Avenue, Los Angeles, California 90064. Telephone (213) 477-4216.

Infoton, Inc., Second Avenue, Burlington, Massachusetts 01803. Telephone (617) 272-6660.

Interface Technology, Inc., 10506 Kahlmyer Drive, St. Louis, Missouri 63132. Telephone (314) 426-6880.

International Communications Corporation (ICC), 8600 N.W. 41st Street, Miami, Florida 33166. Telephone (305) 592-7654.

International Telephone & Telegraph Corporation (ITT), Data Equipment & Systems Division, East Union Avenue, East Rutherford, New Jersey 07073. Telephone (201) 935-3900.

Jacquard Systems, 1505 11th Street, Santa Monica, California 90404. Telephone (213) 393-3711.

Kustom Electronics Inc., Data Communications Division, 1010 West Chestnut, Chanute, Kansas 66720. Telephone (316) 431-4380.

Lear Siegler, Inc., Electronic Instrumentation Division, 714 North Brookhurst Street, Anaheim, California 92803. Telephone (714) 774-1010.

Leasco Data Communications Corporation, 20030 Century Boulevard, Germantown, Maryland 20767. Telephone (301) 428-0500.

Megadata Computer and Communications Corporation, 35 Orville Drive, Bohemia, New York 11716. Telephone (516) 589-6800.

Memorex Corporation, Equipment Group, San Tomas at Central Expressway, Santa Clara, California 95052. Telephone (408) 987-3412.

Microtech Data Systems, Inc., 1141 East Janis Street, Carson, California 90746. Telephone (213) 637-1981.

NCR Corporation, EDP Products, Building 23, 3rd Floor, Main & K Streets, Dayton, Ohio 45409. Telephone (513) 449-6620.

Olivetti Corporation of America, 500 Park Avenue, New York, New York 10022. Telephone (212) 371-5500.

Omron Systems, Inc., 432 Toyama Drive, Sunnyvale, California 94086. Telephone (408) 734-8400.

Ontel Corporation, 3 Fairchild Court, Plainview, New York 11803. Telephone (516) 822-7800.

Pertec Business Systems, 17112 Armstrong Avenue, Santa Ana, California 92705. Telephone (714) 540-8340.

Plantronics, Inc., 385 Reed Street, Santa Clara, California 95050. Telephone (408) 249-1160.

Quotron Systems, Inc., 5454 Beethoven Street, Los Angles, California 90066. Telephone (213) 398-2761.

Randal Data Systems, Inc., 365 Maple Avenue, Torrance, California 90503. Telephone (213) 320-8550.

Raytheon Data Systems Company, Division of Raytheon Company, 1415 Boston-Providence Turnpike, Norwood, Massachusetts 02162. Telephone (617) 762-6700.

Research, Inc., PO Box 24064, Minneapolis, Minnesota 55424. Telephone (612) 941-3300.

Sanders Data Systems, Inc., Daniel Webster Highway, Nashua, New Hampshire 03060. Telephone (603) 885-6685.

Scientific Measurement Systems, Inc., 26 Olney Avenue, Cherry Hill, New Jersey 08003. Telephone (609) 424-5220.

Selecterm, Inc., 2 Audubon Road, Wakefield, Massachusetts 01880. Telephone (617) 246-1300.

Singer Business Machines, Division of The Singer Company, 70 New Dutch Lane, Fairfield, New Jersey 07006. Telephone (201) 256-4000.

Sycor, Inc., 100 Phoenix Drive, Ann Arbor, Michigan 48104. Telephone (313) 971-0900.

TEC, Inc., 2727 N. Fairview Avenue, Tucson, Arizona 85705. Telephone (602) 792-2230.

Tektronix, Inc., PO Box 500, Beaverton, Oregon 97005. Telephone (503) 644-0161.

Teleram Communications Corporation, 1032 Mamaroneck Avenue, Mamaroneck, New York 10543. Telephone (914) 698-7789.

Teletype Corporation, 5555 Touhy Avenue, Skokie, Illinois 60076. Telephone (312) 982-2000.

Termiflex Corporation, 17 Airport Road, PO Box 1123, Nashua, New Hampshire 03060. Telephone (603) 889-3883.

Terminal Communications, Inc., 3301 Terminal Drive, Raleigh, North Carolina 27611. Telephone (919) 834-5251.

Trans-Lux Corporation, 625 Madison Avenue, New York, New York 10022. Telephone (212) PL 1-3110.

Trivex, Inc., Information Systems Division, 3180 Red Hill Avenue, Costa Mesa, California 92626. Telephone (714) 546-7781.

Univac Division, Sperry Rand Corporation, PO Box 500, Blue Bell, Pennsylvania 19422. Telephone (215) 542-4011.

Video Data Systems, 657 Old Willets Path, Hauppauge, New York 11787. Telephone (516) 234-1010.

Wang Laboratories, Inc., 836 North Street, Tewksbury, Massachusetts 01876. Telephone (617) 851-4111.

Western Union Data Services Company, 70 McKee Drive, Mahwah, New Jersey 07430. Telephone (201) 529-1170.

Westinghouse Canada, Ltd., Box 510, Hamilton, Ontario, Canada L8N 3K2. Telephone (416) 528-8811.

Wiltek, Inc., Glover Avenue, Norwalk, Connecticut 06850. Telephone (203) 853-7400.

Wintek Corporation, 902 North 9th Street, Lafayette, Indiana 47904. Telephone (317) 742-6802.

Wyle Computer Products, a Division of Wyle Laboratories, 3200 Magruder Boulevard, Hampton, Virginia 23666. Telephone (804) 838-0122.

Xerox Corporation, 70 South Aviation Boulevard, El Segundo, California 90245. Telephone (213) 679-4511.

Zentec Corporation, 2368-C Walsh Avenue, San Clara, California 95050. Telephone (408) 246-7662.□

Part 1:

Terminal Description

Compatibility Display Feature Programmability Cursor Control

Display Organization
Display Features

VENDOR AND MODEL	Ann Arbor Terminals DESIGN III KSR/R0	Ann Arbor Terminals Series 200 KSR/R0	Applied Digital Data Systems (ADDS) Consul 520	Applied Digital Data Sys. (ADDS) Consul 580 & MRD 460	Applied Digital Data Systems (ADDS) MRD 460
TERMINAL DESCRIPTION					
Processor control	No	No	No	No	No
Memory range, bytes Stand-alone unit	Yes	– Yes	- Yes	_ Yes	— Yes
Local cluster arrangement	No	No	No	No	No
Remote cluster arrangement	No	No	No	No	No
Max. no. of displays/controller	-	-	-	_	_
Max. no. of printers/controller	_	_	_	_	_
Max. no. of devices/controller Any mix of screen sizes/controller	-	_	_	_	_
Computer Interface	No	No	No	No	No
Portable case	No	No	No	No	No
COMPATIBILITY					
IBM 3270/3275	No	No	No	No	No
IBM 2260/2265	No	No	No	No	No
Teletype 33/35 Teletype 40	Std. No	Std. No	Std. Std.	Std.	Std. Std.
Other	None	None	No	No	No
PROGRAMMABILITY					
Programmed via:		1			
User-created programs	No	No	No	No	No
User-defined parameters Vendor-defined firmware	No No	No No	No No	No No	No No
User-defined firmware	No	No	No	No	No
Vendor-supplied software	No	No	No	No	No
Software pricing	_	_	-	_	_
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars/line Display area, h x w, inches Total displayable symbols Symbol formation	256-3200 8 x 32 to 40 x 80 14-inch diag. 64, 96, or 128 5 x 7 or 7 x 9 dot	256-3200 8 x 32 to 40 x 80 9 to 23-inch diag. 64, 96, or 128 5 x 7 or 7 x 9 dot	1920 24 × 80 8 × 10-inch diag. 64 5 × 7 dot matrix	1920 24 x 80 8 x 10; 12" diag. 64 5 x 7 dot matrix	1920 24 x 80 9/25-inch diag. 64 5 x 7 dot matrix
DISPLAY FEATURES	matrix	matrix			
Color	No	No	No	No	8 colors std.
Reverse video Programmable brightness levels	Opt. 2 opt.	Opt. 2 opt.	No No	No No	Std. 2 std.
Character and/or field blinking	Both opt.	Both opt.	No	No	Both std.
Roll Paging	Std. No	Std. No	Up std. No	Std.	No No
CURSOR CONTROL					
Cursor positioning; Up, Down, Left, Right, Home, Return	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	No	L, R, U, D, H	U, D, L, R, H
Cursor blinking	Opt.	Opt.	Opt.	Opt.	Opt.
Addressable/readable cursor	Std. addressable only	Std. addressable only	Std. addressable only	Std. addressable only	Std. addressable only
FORMAT CONTROL	Jy	J,		J,	,
Protected format	Opt.	Opt.	No	No	Std.
Format creation via keyboard Format editing via keyboard	Opt.	Opt.	No No	No No	Std. Std.
Format editing via keyboard Format storage	Opt. Opt.	Opt. Opt.	No	No No	Sta. 1 std.
Partial screen transmit	Opt.	Opt.	No	No	No
Tabulation	Opt.	Opt.	No	No	Std.
EDIT FUNCTIONS					
Character insert/delete	Opt.	Opt.	No	Std.	No
Line insert/delete	Opt.	Opt.	No	No Ct-d	No Stat
Character erase Line erase	Std. Opt.	Std. Opt.	Std. No	Std. No	Std. Std.
	Std.	Std.	Std.	Std.	Std.
Screen erase	Std.	Std.	No	Std.	Std.
Screen erase Character repeat	i e		ı		
Character repeat KEYBOARD PARAMETERS					
Character repeat KEYBOARD PARAMETERS Style	Teletype	Teletype	Typewriter	Typewriter	Typewriter
Character repeat KEYBOARD PARAMETERS Style Character/code set	ASCII	ASCII	ASCII	ASCII	ASCII
Character repeat KEYBOARD PARAMETERS Style					
Character repeat KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Cursor control keys	ASCII Std. No 6 std.	ASCII Std. No 6 std.	ASCII No No No	ASCII No No Std.	ASCII Std. No 4 std.
Character repeat KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Cursor control keys Edit function keys	ASCII Std. No 6 std. 3 std.; 5 opt.	ASCII Std. No 6 std. 3 std.; 5 opt.	ASCII No No No No	ASCII No No Std. 5 std.	ASCII Std. No 4 std. 4 std.
Character repeat KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Cursor control keys	ASCII Std. No 6 std.	ASCII Std. No 6 std.	ASCII No No No	ASCII No No Std.	ASCII Std. No 4 std.

Part 2:

Operator Features Ancillary Features Transmission Parameters Transmission Features
Terminal Interface
Line Interface

VENDOR AND MODEL	Ann Arbor Terminals DESIGN III KSR/R0	Ann Arbor Terminals Series 200 KSR/R0	Applied Digital Data Systems (ADDS) Consul 520	Applied Digital Data Sys. (ADDS) Consul 580 & MRD 380	Applied Digit Data System (ADDS) MRD 460
OPERATOR FEATURES					
Numeric keylock	<u> </u>	-	Opt.	-	No
Audible alarm	Opt.	Opt.	Std.	Std.	No
Keylock Operator I.D. card reader	No	No	No No	No No	No No
Light pen	No	No No	No No	No No	No
ANCILLARY DEVICES			1		
Cassette tape drive	No	No	No	RS-232 interface	RS-232 interfac
Diskette drive (floppy disk)	No	No	No	RS-232 interface	RS-232 interfac
Serial printer Print speed & positions, cps	No	No	Imact 30 @ 80	Non-impact	No
Other devices	None	None	None	None	None
TRANSMISSION PARAMETERS				1	
Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duple:
Technique	Asynchronous	Asynchronous	Asynchronous	Asynchronous	Asynchronous
Communications protocol	ASCII	ASCII	ASCII	ASCII	ASCII
Code Unit code structure, bits/char.	ASCII 10	ASCII 10	ASCII 10	ASCII 10	ASCII 10
Speed, bits/second	Up to 9600	Up to 9600	Up to 9600	Up to 9600	Up to 1500 cps
Operator selectable speeds	_ OP 10 3000	_ CP 10 3000	_ Op 10 30 00	_ CP 10 3000	
Format: character, line, or block	Char./block opt.	Char./block opt.	Char. only	Char. only	Char. only
TRANSMISSION FEATURES	_				
Multipoint operation (pollable/addr.)	Opt.	Opt.	No	No	No
Auto answer	No	No	No No	No	No
Auto call	No	No	No	No	No
FERMINAL INTERFACE	RS-232C	RS-232C	RS-232C, CCITT V.24, 20 ma	RS-232C, 20 ma opt.	RS-232C, CCIT V.24, 20 ma, T
INE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	Yes
Integral modem	No	No	No	No	No
Integral acoustic coupler	No	No	No	No	No
Vendor-supplied external modem	No	No	No	No	No
DIAGNOSTICS					
Self diagnostics	No	No	No	No	No
In line	No	No	No	No	No
On line Off line	No No	No No	No No	No No	No No
PRICING (Price range shows cost of basic unit and unit with all options) Lease price including maintenance: Display station, 1 year lease, \$/mo.	_	_	_	_	_
Display station, 2 year lease, \$/mo.		_	_		_
Display station, 3 year lease, \$/mo.	_	_	_	-	-
Serial printer, 1 year lease, \$/mo.	_		-	-	_
Serial printer, 2 year lease, \$/mo.	-	_	-	_	_
Serial printer, 3 year lease, \$/mo.		_	_	-	_
Controller, 1 year lease, \$/mo.	_	l <u> </u>	1_	_	_
Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo.	_	_	_	_	_
Purchase price: Display station, \$	1,070-1,995	_	1,595	1,795 (Consul 580)	Contact vendor
Serial printer, \$ Controller, \$		_ 720-1,345		_ _	_
Software, \$ Quantity discounts available	_ Yes	Yes	_ Yes	_ Yes	_ Yes
VAILABILITY					
Date of first production delivery	12/73	5/7 0	4/76	' 73(580); ' 74(380)	9/75
Display units installed to date	1,650	5,700		3000/200	150
Serviced by No. of service locations	Ann Arbor	Ann Arbor	NCR —	NCR -	ADDS
COMMENTS	casework. Series 20	5 x 32, 24 x 40, 16 80, and 40 x 80. ame circuitry as oused in attractive		Also available from NCR as Model 796-101; MRD 380 is rack- mount controller priced at \$1,195	
	·				

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Applied Digital Data Sys. (ADDS) Consul 880A & MRD 780A	Applied Digital Data Systems (ADDS) Consul 920	Applied Digital Data Sys. (ADDS) Consul 980 & MRD 980	Applied Digital Data Systems (ADDS) Consul 980A	Applied Digital Data Systems (ADDS) Envoy 620
TERMINAL DESCRIPTION					
Processor control	No	No	No	No	No
Memory range, bytes	l —	_	l — I		
Stand-alone unit	Yes	Yes	Yes	Yes	Yes
Local cluster arrangement	No	No	No No	No No	No
Remote cluster arrangement Max. no of displays/controller	No 1; up to 96 chained	No 			_
Max. no. of printers/controller	- 1, up to 50 chambe	_	_	_	_
Max. no. of devices/controller		-	-	_	_
Any mix of screen sizes/controller		-	I . .	= 1	_
Computer interface	No	No	No No	No No	No Yes: 29 lbs.
Portable case	No	No	INO	INU	165, 25 105.
COMPATIBILITY					
IBM 3270/3275	No	No	No	Std.	No
IBM 2260/2265	No	No	No	No	No
Teletype 33/35	No	No	Std.	No No	Std. Std.
Teletype 40 Other	No No	No No	No No	No	No
Other	140	140	1,00	110	140
PROGRAMMABILITY					
Programmable via: User-created programs	No	No	No	No	No
User-defined parameters	No	No	No I	No	No
Vendor-defined firmware	No	No	No	No	No
User-defined firmware	No	No	No	No	No
Vendor-supplied software	No	No	No	No	No
Software pricing	_		-		
DIODI AV ODGANIZATION					
DISPLAY ORGANIZATION Display positions, chars./display	1920	1920	1920	1920	1920
Display arrangement, lines x chars./line		24 x 80	24 x 80	24 × 80	24 x 80
Display area, h x w, inches	8 x 10; 12" diag.	8 x 10; 12" diag.	8 x 10; 12" diag.	8 x 10; 12" diag.	2 x 3; 5" diag.
Total displayable symbols	64	96	96	96	64
Symbol formation	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix
DISPLAY FEATURES					
Color	No	No	No	No	No
Reverse video	No	Std.; selectable	Std.; selectable	Std.; selectable	No
Programmable brightness levels	2 std.	2 std.	2 std.	2 std.	No
Character and/or field blinking	Both std.	Both std., 2 speeds	Both std., 2 speeds	Both std., 2 speeds	No
Roll	Up std.	Up std.	Up std.	Up std.	Up std.
Paging	No	No	No Star	No I	No
CURSOR CONTROL					
Cursor positioning; Up, Down, Left,	L, R, U, D, H	L, R, U, D, H	L, R, U, D, H	L, R, U, D, H	U, D, L, R, H
Right, Home, Return Cursor blinking	No	Opt.	Opt.	No	Opt.
Addressable/readable cursor	Std. addressable	Std.	Std. addressable	Std.	Std.
, 133, 133, 134, 134, 134, 134, 134, 134	only		only		
FORMAT CONTROL					
Protected format	Std.	Std.	Std.	Std.	No No
Formation creation via keyboard Format editing via keyboard	Std. Std.	Std. Std.	Std.	Std.	No No
Format editing via keyboard	Std.	Std.	Std.	Std.	No
Partial screen transmit	Std.	Std.	Std.	Std.	No
Tabulation	Std.	Std.	Std.	Std.	No
EDIT FUNCTIONS					
EDIT FUNCTIONS Character insert/delete	Std.	No	Std.	Std.	No
Line insert/delete	No	No	Std.	Std.	No
Character erase	Std.	Std.	Std.	Std.	Std.
Line erase	Std.	Std.	Std.	Std.	No
Screen erase	Std.	Std.	Std.	Std.	Std.
Character repeat	Std.	Std.	Std.	Std.	No
KEYBOARD PARAMETERS				l	
Style	Typewriter	Typewriter	Typewriter	Typewriter	Typewriter
Character/code set	ASCII	ASCII	ASCII	ASCII	ASCII
Detachability	No	No	No	No	No
Program function keys	No	11 opt.	11 opt.	11 opt.	No E atal
Cursor control keys	5 std. 6 std.	5 std. 4 std.	5 std. 8 std.	5 std. 8 std.	5 std. 2 std.
Edit function kove				v stu.	4 JIU.
Edit function keys Numeric keypad				Std.	No
Edit function keys Numeric keypad	Std.	Std.	Std.	Std.	No

Part 2:

Operator Features
Ancillary Features

Transmission Parameters

Transmission Features Terminal Interface Line Interface

VENDOR AND MODEL	Applied Digital Data Sys. (ADDS) Consul 880A & MRD 780A	Applied Digital Data Systems (ADDS) Consul 920	Applied Digital Data Sys. (ADDS Consul 980 & MRD 980	Applied Digital Data Systems (ADDS) Consul 980A	Applied Digital Data Systems (ADDS) Envoy 620
OPERATOR FEATURES					
Numeric keylock Audible alarm	- No	_ Std.	- Std.	– Std.	Opt. Std.
Keylock	i —		[_	- Sta.	No
Operator I.D. card reader Light pen	No No	No No	No No	No No	No No
- '			110	140	110
NCILLARY DEVICES Cassette tape drive	RS-232 interface	RS-232 interface	RS-232 interface	RS-232 interface	RS-232 interface
Diskette drive (floppy disk)	RS-232 interface	RS-232 interface	RS-232 interface	RS-232 interface	RS-232 interface
Serial printer Print speed & print positions, cps	Non-impact	Non-impact (NCR)	Impact (Centron.)	None	Non-impact (NCF
Other devices	None	None	None	None	30 cps;80 position None
RANSMISSION PARAMETERS Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half-duplex	Half/full-duplex
Technique	Asynchronous	Asynchronous	Asynchronous	Async./sync.	Asynchronous
Communications protocol	ASCII	ASCII	ASCII	BSC	ASCII
Code Unit code structure, bits/char.	ASCII 10	ASCII 10	ASCII 10	ASCII 8/10	ASCII 10/11
Speed, bits/second	Up to 96 00	Up to 9600	Up to 96 00	Up to 9600	Up to 96 00
Operator selectable speeds Format: character, line, or block	 Block only	– Char./block	- Char./block	Block only	5 std. Char. only
RANSMISSION FEATURES					,
Multipoint operation (pollable/addr.)	Std.	No	No	Std.	No
Auto answer Auto call	No No	No No	No	No	No
	INO		No	No	No
ERMINAL INTERFACE	RS-232C	RS-232C, 20 ma opt.	RS-232C, 20 ma opt.	RS-232C	RS-232C, CCITT V.24, 20 ma
INE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	No
ntegral modem ntegral acoustic coupler	No No	No No	No No	No	Std.
Vendor-supplied external modem	No	No	No	No No	Std. No
IAGNOSTICS					
Self diagnostics In line	No No	No	No	No	No
On line	No	No No	No No	No No	No No
Off line	No	No	No	No	No
RICING (Price range shows cost of pasic unit and unit with all options)					
Lease price including maintenance:					
Display station, 1 year lease, \$/mo.	-	_	 -		-
Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo.	_	_	<u> </u>	155 125	 80
Serial printer, 1 year lease, \$/mo.	1-		_	- -	-
Serial printer, 2 year lease, \$/mo.	-	-			
Serial printer, 3 year lease, \$/mo. Controller, 1 year lease, \$/mo.	_	_	_	_	_
Controller, 2 year lease, \$/mo.	-	_	_	_	_
Controller, 3 year lease, \$/mo. Purchase price:	-	_	-	_	_
Display station, \$	3,265(880A);3,845	2,600	2,800 (Con. 980)	3,200	2,250
Serial printer, \$			-	_	-
Controller, \$ Software, \$		-		_	_
Quantity discounts available	Yes	Yes	Yes	Yes	Yes
VAILABILITY	0 (70	4 (===		_ ,	
Date of first production delivery Display units installed to date	9/73 600/200	4/70 5,000	11/74,4/75 (MRD) 600 (Consul 980)	6/75	10/75
Serviced by	NCR	NCR	NCR	- NCR	100 NCR
No. of service locations	-	_	-	_	_
OMMENTS	Also available		MRD 980 is rack-		
· — · · · · ·	from NCR as		mount controller		
	Model 796-301;		priced at \$1,995		
	MRD 780A is rack-mount con-				
	troller priced at				
	\$2,825 to \$3,170			!	

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Applied Digital Data Systems (ADDS) Envoy 680	Beehive Terminals Mini Bee 2	Beehive Terminals Mini Bee 4	Beehive Terminals Super Bee 2	Beehive Terminals Super Bee
FERMINAL DESCRIPTION					
Processor control	No	No	No	Microprocessor	Microprocessor
Memory range, bytes	1-	_	I	2K	2K
Stand-alone unit	Yes	Yes	Yes	Yes	Yes
Local cluster arrangement	No	No	No	No	No
Remote cluster arrangement	No	No	No	No	No
Max. no. of displays/controller	1-	I	_	_	_
Max. no. of printers/controller	-	I —	_	 -	_
Max. no. of devices/controller	1-	_	_	i —	_
Any mix of screen sizes/controller	_	_	-	-	_
Computer interface	No	No	No	No	No
Portable case	Yes; 26 lbs.	No	No	No	No
	l				
COMPATIBILITY		1		1	
IBM 3270/3275	No	No	No	No	No
IBM 2260/2265	No	No	No	No	No
Teletype 33/35	Std.	Std.	Std.	Std.	No
Teletype 40	No	No	No	No	No
Other	No	No	No	No	Opt. protocols
ROGRAMMABILITY Programmable via: User-created programs User-defined parameters Vendor-defined firmware	No No No	No No No	No No No	No No Yes	No No Yes
User-defined firmware	No	No	No	Yes	Yes
Vendor-supplied software	-	-	-	No	No
		l			
Software pricing	_	_	_	_	_
			İ		
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols	2 x 3; 5" diag. 64	2000 25 x 80 6.5 x 8.4 64	2000 25 x 80 6.5 x 8.4 128	2000 25 x 80 6.5 x 8.4 128	2000 25 × 80 6.5 × 8.4 128
Symbol formation	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix
DISPLAY FEATURES					
Color	No	No	No	No	No
Reverse video	No	No	Std.	Std.	Std.
Programmable brightness levels	No	2 std.	No	No	No
Character and/or field blinking	No	Both std.	No	Both std.	Both std.
D. II	4.5	1	1	11-0-1	
Roll	Up std.	Up std.	Up std.	Up & down std.	
Paging	No	-	 -	Forward & back-	Forward & back
		1	1	ward std.	ward std.
URSOR CONTROL	1		l		
Cursor positioning; Up, Down, Left,	U, D, L, R, H	L, R, U, D, H	L, R, U, D, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, F
Right, Home, Return	l a	l	la	a	a
Cursor blinking	Opt.	No	Std.	Std.	Std.
Addressable/readable cursor	Std.	No	Std. addressable	Both std.	Both std.
			only		
			L		Std.
ORMAT CONTROL	No	C+4	6+4		
ORMAT CONTROL Protected format	No	Std.	Std.	Std.	Sta.
ORMAT CONTROL Protected format Format creation via keyboard	No	Std.	Std.	Std.	Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard	No No	Std. Std.	Std. Std.	Std. Std.	Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage	No No -	Std. Std. Std.	Std. Std. Std.	Std. Std. Std.	Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit	No No - No	Std. Std. Std. Std.	Std. Std. Std. Std.	Std. Std. Std. Std.	Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit	No No -	Std. Std. Std.	Std. Std. Std.	Std. Std. Std.	Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation	No No - No	Std. Std. Std. Std.	Std. Std. Std. Std.	Std. Std. Std. Std.	Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS	No No - No No	Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format	No No - No	Std. Std. Std. Std.	Std. Std. Std. Std.	Std. Std. Std. Std.	Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert/delete Line insert/delete	No No No No	Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase	NO NO NO NO NO NO	Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. No	Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase	No No No No No Std.	Std. Std. Std. Std. Std. Std. Std. No	Std. Std. Std. Std. No No Std.	Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Coreen erase Coreen erase	No No No No No Std.	Std. Std. Std. Std. Std. Std. No Std. Std.	Std. Std. Std. Std. Std. No No Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert/delete	No No No No No Std. No Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. No No Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Screen erase Character repeat EYBOARD PARAMETERS Style	No No No No No Std. No Std. No Typewriter	Std. Std. Std. Std. Std. No Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. No No Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Character repeat EYBOARD PARAMETERS Style Character/code set	No No No No No Std. No Std. No Std. No Std. Ano Std. No	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. No No Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Screen erase Character repeat EYBOARD PARAMETERS Style Character/code set Detachability	No No No No No Std. No Std. No Typewriter ASCII	Std. Std. Std. Std. Std. No Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. No No Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Fabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Screen erase Character repeat EYBOARD PARAMETERS Style Character/code set Detachability Program function keys	No No No No No Std. No Std. No Typewriter ASCII No No	Std. Std. Std. Std. Std. No Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. No No Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Fabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Screen erase Corean erase EYBOARD PARAMETERS Style Character/code set Detachability Program function keys Cursor control keys	No No No No No Std. No Std. No Std. No Std. No Std. No	Std. Std. Std. Std. Std. No Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. No No Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Fabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Screen erase Character repeat EYBOARD PARAMETERS Style Character/code set Detachability Program function keys Edit function keys Edit function keys	No No No No No Std. No Std. No Typewriter ASCII No No 5 std. No	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. No No Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Fabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Screen erase Character repeat EYBOARD PARAMETERS Style Character/code set Detachability Program function keys Edit function keys Edit function keys	No No No No No Std. No Std. No Std. No Std. No Std. No	Std. Std. Std. Std. Std. No Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. No No Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.
ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Screen erase Character repeat EYBOARD PARAMETERS Style Character/code set	No No No No No Std. No Std. No Typewriter ASCII No No 5 std. No	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. No No Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.

Part 2:

Operator Features Ancillary Features

Transmission Features Terminal Interface Transmission Parameters Line Interface

VENDOR AND MODEL	Applied Digital Data Systems (ADDS) Envoy 680	Beehive Terminals Mini Bee 2	Beehive Terminals Mini Bee 4	Beehive Terminals Super Bee 2	Beehive Terminals Super Bee 3
OPERATOR FEATURES	· · · · · · · · · · · · · · · · · · ·				
Numeric keylock	No	No	No	No	No
Audible alarm	No	Std.	Std.	Std.	Std.
Keylock Operator I.D. card reader	No No	No No	No No	No No	No No
Light pen	No	No	No	No	No
ANCILLARY DEVICES					
Cassette tape drive	No	Yes Yes	RS-232 interface RS-232 interface	No	No No
Diskette drive (floppy disk) Serial printer	No No	No	RS-232 interface	No RS-232 interface	RS-232 interface
Print speed & print positions, cps	No	_	_	-	-
Other devices	None	None	None	None	None
TRANSMISSION PARAMETERS					
Mode	Half-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Technique	Asynchronous	Asynchronous	Asynchronous	Async./sync.	Async./sync.
Communications protocol	ASCII	ASCII	ASCII	User specified	User specified
Code	ASCII	ASCII 10/11	ASCII 10	ASCII 8/10	ASCII 8/10
Unit code structure, bits/char. Speed, bits/second	10 Up to 300	Up to 9600	Up to 9600	Up to 9600	Up to 9600
Operator selectable speeds	-	-		-	-
Format: character, line, or block	Char./block	Char./block	Char./block	Char./block	Char./block
TRANSMISSION FEATURES	No	No	No	Opt.	Std.
Multipoint operation (pollable/addr.) Auto answer	No	No No	No No	No	No
Auto aliswei	No	No	No	No	No
TERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C
LINE INTERESE					
LINE INTERFACE	No	Yes	Yes	Yes	Yes
External modem required Integral modem	Std.	No	No l	No	No
Integral acoustic coupler	Std.	No	No	No	No
Vendor-supplied external modem	No	No	No	No	No
DIAGNOSTICS					
Self diagnostics	No	No	No	No	No
In line On line	No No	No No	No No	No No	No No
Off line	No	No	No	No	No
PRICING (Price range shows cost of basic unit and unit with all options) Lease price including maintenance: Display station, 1 year lease, \$/mo.	_	_	_	_	_
Display station, 2 year lease, \$/mo.	_	_		-	_
Display station, 3 year lease, \$/mo.	99-106	_	- - - -	-	
Serial printer, 1 year lease, \$/mo. Serial printer, 2 year lease, \$/mo.	_	_ _	<u> </u>	_	_
Serial printer, 2 year lease, \$/mo.	_	_	-	_	_
Controller, 1 year lease, \$/mo.	_	-		_	_
Controller, 2 year lease, \$/mo.	_	_	-	-	_
Controller, 3 year lease, \$/mo. Purchase price:	_	_	_	-	-
Display station, \$ Serial printer, \$	3,895-4,090	1,795	2,395	3,295	3,695
Controller, \$	_	_	_ _ _	_	-
Software, \$ Quantity discounts available	– Yes	– Yes	_ Yes	– Yes	_ Yes
AVAILABILITY					
Date of first production delivery	4/70	8/73	4/74	5/73	6/74
Display units installed to date	300	3,000	600	4,500 (incl. SB 3)	
Serviced by No. of service locations	NCR -	Factory & Sorbus 20	Factory & Sorbus 30	Factory & Sorbus 30	Factory & Sorbus 30
COMMENTS					
				!	
					,

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

DISPLAY FEATURES Color Reverse video Std.	VENDOR AND MODEL	Beehive Terminals Speedi Bee 8	Beehive Terminals Edit Bee	Bunker Ramo Model 2204/15	Bunker Ramo Model 2206/17	Bunker Ram Model 2210
Processor control No	TERMINAL DESCRIPTION					
Vest		No	Microprocessor	No	No	No
Local cluster arrangement No		_		l –	_	_
No						
Max. no. of displays/controller						
Max. no. of printers/controller -						
Max. no. of devices/controller						
Any mix of screen sizes/controller			1			_
Computer interface						
Portable case			_		_	—
IBM 2270/3275		No	No	No	No	No
IBM 2260/2265						
Teletype 33/35						
Telestype 40						
Other No						
Programmable via: User-created programs User-defined parameters No						
DISPLAY ORGANIZATION Display positions, chars./display Display positions, chars./display 25 x 80 25 x 80 12 x 80 or 24 x 37	Programmable via: User-created programs User-defined parameters Vendor-defined firmware User-defined firmware	No No No	No Yes Yes	No No No	No No No	No No No
Display positions, chars./display Display arrangement, lines x chars/line Display arrangement, lines x chars/lines Display arrangement x charses Di	Software pricing	-	_	_	_	-
Display positions, chars./display 2000 25 x 80 25 x 80 12 x 80 or 24 x 37 10 x 20	DISPLAY ORGANIZATION			1		
Display arrangement, lines x chars/line 25 x 80 6.5 x 8.4 128		2000	2000	960	960	198
Display area, h x w, inches 128 128 5 x 7 dot matrix 5 x 7 d						
128						
No		128	128	92	92	92
No No No No No No No No	Symbol formation	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix
Reverse video Programmable brightness levels Character and/or field blinking Roll Paging ROL Paging ROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Corron treation via keyboard Format editing via keyboard Format editing via keyboard Format stortage Partial screen transmit Std. Std. Std. Std. Std. Std. Std. Std	DISPLAY FEATURES					
Programmable brightness levels Character and/or field blinking Character and/or field blinking No Paging No Paging No	Color	No	No	No	No	No
Character and/or field blinking Both std. Both std. Field std. Froward & backward & back		Std.	Std.	No	No	No
Roll Paging No Paging No Paging No Paging U, D, L, R, H, Rt. Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Cornat creation via keyboard Format editing via keyboard Format editing via keyboard Format editing via keyboard Format editing via keyboard Format storage Std. Std. Std. Std. Std. Std. Std. Std.						
Paging	Character and/or field blinking	Both std.	Both std.	Field std.	Field std.	Field std.
Paging	Dall	A1-	llm 8 da and	N-	N	N1 -
Ward std. Ward std. Ward std. Cursor positioning; Up, Down, Left, Right, Home, Return No						
CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable only ORMAT CONTROL Protected format Format creation via keyboard Format cediting via keyboard Format storage Std. Std. Std. Std. Std. Std. Std. Std.	raging	140		I NO	INO	NO
No	CURSOR CONTROL		ward std.			
No	Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, Rt.	L, R, H, Rt.	L, R, H, Rt.	L, R, H, Rt.
Addressable/readable cursor				1		
Only						
Std.	Addressable/readable cursor		Std.			Std. addressable
Protected format	OBMAT CONTROL	only		only	only	only
Format creation via keyboard Std.		04.1	04.4	1	0.1	0.1
Std.						
Std.						
Partial screen transmit				•		
Tabulation						
Character insert/delete No Std. Std. Std. No						
Character insert/delete No Std. Std. Std. No	DIT FUNCTIONS					
Detachability Detachability Std. Std		No	C+.4	e+d	C+-1	No
Character erase Std. Std. Std. Std. Std. Std. Std. Std. Std. No Std.						
Std.						
Streen erase						
Character repeat Std. Std. No No No KEYBOARD PARAMETERS Typewriter Typewriter Typewriter Typewriter Typewriter Typewriter ASCII						
StyleTypewriterTypewriterTypewriterTypewriterTypewriterTypewriterASCII <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
StyleTypewriterTypewriterTypewriterTypewriterTypewriterTypewriterASCII <t< td=""><td>FYROARD PARAMETERS</td><td></td><td></td><td></td><td></td><td></td></t<>	FYROARD PARAMETERS					
Character/code set ASCII ASCIII ASCII ASCII <td></td> <td>Typewriter</td> <td>Typewriter</td> <td>Typewriter</td> <td>Typewriter</td> <td>Block</td>		Typewriter	Typewriter	Typewriter	Typewriter	Block
Detachability Std. Std. Std. Std. No No Restd. 16 std. 16 std. 6 std. 6 std. 5 std. 6 std. 6 std. 6 std. 6 std. 6 std. 7 std. 8 std. 9 std.						
Program function keysNo8 std.16 std.6 std.Cursor control keysStd.Std.6 std.5 std.Edit function keysErase only-4 std.4 std.2 std.						
Cursor control keys Std. Std. 6 std. 6 std. 5 std. Edit function keys Erase only - 4 std. 2 std.						
Edit function keys Erase only - 4 std. 4 std. 2 std.						
			-			
	Numeric keypad	Opt.	Std.	Std.	Std.	Std.

Part 2:

Operator Features Ancillary Features

Transmission Features Terminal Interface Transmission Parameters Line Interface

VENDOR AND MODEL	Beehive Terminals Speedi Bee 8	Beehive Terminals Edit Bee	Bunker Ramo Model 2204/15	Bunker Ramo Model 2206/17	Bunker Ramo Model 2210
OPERATOR FEATURES					
Numeric keylock	No	No	Std.	Std.	Std.
Audible alarm Keylock	Std. No	Std. No	Opt. No	Opt. No	No No
Operator I.D. card reader	No	No	No	No	No
Light pen	No	No	No	No	No
ANCILLARY DEVICES					
Cassette tape drive	No	No	No	No	No
Diskette drive (floppy disk) Serial printer	No No	No RS-232 interface	No Impact	No Impact	No Impact
Print speed & print positions, cps	-		10/30/120/165	10/30/120/165	10/30/120/165
Other devices	None	None	Paper tape reader/ punch	Paper tape reader/	Paper tape reade
			punch	punen	panen
TRANSMISSION PARAMETERS Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Technique	Asynchronous	Async./sync.	Async /sync.	Async./sync.	Async./sync.
Communications procotol	- Controlled	User specified	ASCII	ASCII	ASCII
Code	ASCII	ASCII	ASCII	ASCII	ASCII
Unit code structure, bits/char.	10	10/11	8/10	8/10	8/10
Speed, bits/second	500K char./sec.	Up to 9600	1200-4800	1200-4800	1200-4800
Operator selectable speeds Format: character, line, or block	- Char./block	— Block only	No Block only	No Block only	No Block only
TRANSMISSION FEATURES					
Multipoint operation (pollable/addr.)	No	Std.	Std.	Std.	Std.
Auto answer	No	No	No	No	No
Auto call	No	No	No	No	No
FERMINAL INTERFACE	TTL 8-bit par'l	RS-232C	RS-232C	RS-232C	RS-232C
INE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	Yes
Integral modem	No	No	Opt.	Opt.	Opt.
Integral acoustic coupler Vendor-supplied external modem	No No	No No	No Opt.	No Opt.	No Opt.
DIAGNOSTICS					
Self diagnostics	No	No	No	No	No
In line	No	No	No	No Yes	No Yes
On line Off line	No No	No No	Yes No	No	No
PRICING (Price range shows cost of					
basic unit and unit with all options)					
Lease price including maintenance:					
Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo.	_	_	46	_ 41	21
Display station, 3 year lease, \$/mo.	<u> </u>		46	41	21
Serial printer, 1 year lease, \$/mo.	1-	_	-	_	_
Serial printer, 2 year lease, \$/mo.	-	-	70-123	70-123	70-123
Serial printer, 3 year lease, \$/mo.	<u> -</u>	_	70-123	70-123	70-123
Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo.		_	98-179	_ 98-179	98-179
Controller, 3 year lease, \$/mo.	_	_	98-179	98-179	98-179
Purchase price:					
Display station, \$	3,695	3,995	1,610	1,525	800
Serial printer, \$ Controller, \$	-		2,650-4,015	2,650-4,015	2,650-4,015 3,710-7,110
Software, \$	_		3,710-7,110	3,710-7,110 -	3,710-7,110
Quantity discounts available	Yes	Yes	No	No	No
VAILABILITY			1		
Date of first production delivery	12/75	7/75	3/73	1/70	1/70
Display units installed to date	75	75-100	-	-	
Serviced by No. of service locations	Factory & Sorbus	Factory & Sorbus -	Bunker Ramo	Bunker Ramo –	Bunker Ramo —
04445470	1				
COMMENTS			All display models can be intermixed on same controller		Small desk-top unit containing block keyboard
	1				and 3-inch scree
		I			l

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Bunker Ramo Model 2212	Burroughs TD 700	Burroughs TD 800	Burroughs TD 820	Computek 200 Series
ERMINAL DESCRIPTION					
Processor control	No	No	No	No	Minicomputer
Memory range, bytes	_	1=	<u> </u>	云	16K-32K
Stand-alone unit	No	Yes	Yes	Yes	Yes
Local cluster arrangement	Yes	No	No	No	No
Remote cluster arrangement	Yes	No	No	No	Yes
Max. no. of displays/controller	36	-		-	2/4
Max. no. of printers/controller	9	-	-	_	_
Max. no. of devices/controller	36	_	<u> </u>	_	_
Any mix of screen sizes/controller Computer interface	Std.	[_	_	_	No
Portable case	No	No	No	No	Opt.
					i .
COMPATIBILITY IBM 3270/3275	No	Opt.	Opt.	Opt.	Via microprogra
IBM 2260/2265	Std.	Opt.	Opt.	Opt.	Via microprogram
Teletype 33/35	No	No.	No	No	Via microprogra
Teletype 40	No	No	No	No	No
Other	No	Burroughs	Burroughs	Burroughs	No
ROGRAMMABILITY					
Programmable via:	1	i			1
User-created programs	No	No	No	No	Yes
User-defined parameters	No	No	No	No	No
Vendor-defined firmware	No	No	No	No	Yes
User-defined firmware	No	No	No	No	Yes
Vendor-supplied software	No	No	No	No	Macro-assem.; lin
	l				ing loader; disket
	ĺ				oper. sys.; multi-
Coffeene suising					track oper, syste
Software pricing	_	_	1-		Std.
ISPLAY ORGANIZATION		1			
Display positions, chars./display	480	256	960/1920	960/1920	480/9600/2000
Display arrangement, lines x chars./line		8 x 32	12/24 × 80	12/24 × 80	25 × 80
Display area, h x w, inches	3 × 4	3.25 x 8.75	7.5 × 9.5	14.8 × 16.4	6 x 8
Total displayable symbols	92	64	64	96	128
Symbol formation	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	14 × 20 dot mat
NORLAY EFATURES					
DISPLAY FEATURES Color	No	No	No	NI	No
Reverse video	No	No	No	No Std.	Std.
Programmable brightness levels	No	No No	No	Sta. No	2 std.
Character and/or field blinking	Field std.	No	No	Both std.	Both std.
Character and/or held billiking	Field Std.	100	INO	Both sta.	Both sta.
Roll	No	No	No	Up & down std.	Std.
Paging	No	No	No	No	Std.
URSOR CONTROL	1	i			
Cursor positioning; Up, Down, Left,	L, R, H, Rt,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, R
Right, Home, Return	1		i_		_
Cursor blinking	No	Not specified	Std.	No	Opt.
Addressable/readable cursor	Std. addressable	No	No	Std.	Std.
ORMAT CONTROL	only	İ			
Protected format	Std.	Std.	Std.	Std.	Std.
Format creation via keyboard	No	Std.	Std.	Std.	Std.
Format editing via keyboard	Std.	Std.	Std.	Std.	Std.
Format storage	None	Std.	Std.	Std.	Std.
Partial screen transmit	Std.	Opt.	Std.	Std.	Std.
Tabulation	Std.	Opt.	Std.	Std.	Std.
DIT FUNCTIONS					
DIT FUNCTIONS	l	1		0.1	l
Character insert/delete	Std.	Opt.	Std.	Std.	Std.
Line insert/delete	No	No	No	Std.	Std.
Character erase	Std.	Std.	Std.	Std.	Std.
Line erase Screen erase	Std. Std.	No Std.	No Std.	Std.	Std.
Character repeat	No	No	Std.	Std. Std.	Std. Std.
·	_				
EYBOARD PARAMETERS		Typewriter/	Typewriter/data	Typewriter/	
\$ * do 1	Block	data entry	data entry/numeric		Data entry
Style	ASCII	ASCII	ASCII	ASCII	ASCII
Character/code set		1.04-1	Std.	Std.	Std.
Character/code set Detachability	No	Std.			
Character/code set Detachability Program function keys	12 std.	No	No	All keys	22 std.
Character/code set Detachability Program function keys Cursor control keys	12 std. 6 std.	No 6 std.	No 6 std.	All keys 6 std.	6 std.
Character/code set Detachability	12 std.	No	No	All keys	

Part 2:

Operator Features Ancillary Features

Transmission Features Terminal Interface Transmission Parameters Line Interface

VENDOR AND MODEL	Bunker Ramo Model 2212	Burroughs TD 700	Burroughs TD 800	Burroughs TD 820	Computek 200 Series
OPERATOR FEATURES					
Numeric keylock	Std.	No	No	No	No
Audible alarm	No	No	Std.	Std.	Opt.
Keylock Operator I.D. card reader	No No	No No	No No	No Opt.	No
Light pen	No	No	No	No	No No
ANCILLARY DEVICES					
Cassette tape drive	No	No	No	Single/dual	Single/dual
Diskette drive (floppy disk)	No	No	No	Single	One to six drives
Serial printer Print speed & print positions, cps	Impact	Impact	Impact	Impact	Impact
Other devices	10, 30, 120, 165 Paper tape reader/	None	None	None	30/165 @ 132 Card reader, 210
outer devices	punch	IVOILE	None	None	and 320-lpm
TRANSMISSION PARAMETERS	Half/full dumlan	Half domino	Half doubles	11-15-1	1
Mode Technique	Half/full-duplex Async./sync.	Half-duplex Async./sync.	Half-duplex Async./sync.	Half-duplex Async./sync.	Half/full-duplex Async./sync.
Communications protocol	ASCII	ASCII/BSC	ASCII/BSC	ASCII/BSC	ASCII/BSC
Code	ASCII	ASCII	ASCII	ASCII	ASCII/EBCDIC
Unit code structure, bits/char.	8/10	8/10/11	8/10/11	8/10/11	8/10/11
Speed, bits/second	1200-4800	Up to 9600	Up to 9600	Up to 96 00	110 to 19,200
Operator selectable speeds	No	No	No	No	-
Format: character, line, or block	Block only	Char./block	Char./block	Char./block	Char./block
TRANSMISSION FEATURES Multipoint operation (pollable/addr.)	Std.	Std.	Std.	Std.	Std.
Auto answer	No	No	No	No	Std.
Auto call	No	No	No	No	No
TERMINAL INTERFACE	RS-232C	RS-232C opt.	RS-232C opt.	RS-232C opt.	RS-232C
LINE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	Yes
Integral modem	Opt.	No	No	No	No
Integral acoustic coupler	No	No	No	No	No
Vendor-supplied external modem	Opt.	No	No	No	Opt.
DIAGNOSTICS Self diagnostics	No	No	No	No	Yes
In line	No	No	No	No	No
On line	Yes	-	_	_	_
Off line	No	No	No	No	Yes
PRICING (Price range shows cost of basic unit and unit with all options)					
Lease price including maintenance:					
Display station, 1 year lease, \$/mo.	 -	115	130-145	160-175	-
Display station, 2 year lease, \$/mo.	37		-	-	-
Display station, 3 year lease, \$/mo. Serial printer, 1 year lease, \$/mo.	37	113	127-142	150-165	Contact vendor
Serial printer, 2 year lease, \$/mo.	70-123	_	_	_	
Serial printer, 3 year lease, \$/mo.	70-123	_	_	_	_
Controller, 1 year lease, \$/mo.	_	_	-	-	-
Controller, 2 year lease, \$/mo.	98-179	-	-	-	-
Controller, 3 year lease, \$/mo. Purchase price:	98-179		-	-	-
Display station, \$	1,345	4,150	5,000-5,500	6,200-6,800	3,000-8,500
Serial printer, \$	2,650-4,015	-,	-	-	-
Controller, \$	3,710-7,110	_	[-	-	-
Software, \$ Quantity discounts available	_ No	_	_	_	_
AVAILABILITY					
Date of first production delivery	1/70	6/73	9/73	2nd gtr. 1975	1972
Display units installed to date	_	_	_	-	Over 2,500
Serviced by No. of service locations	Bunker Ramo 65	Burroughs —	Burroughs 	Burroughs	Computek/Sorbi
COMMENTS	Small desk-top	Uses Burroughs			
50.m.c.1410	unit containing	Self-Scan gas tech-			
	3 block keygroups	nology display	1		
	and 6-inch screen	panel; display, con-	1		
		trol, and keyboard	1		
	l ·	are separate; sev-	1		
		eral terminals can share one modem			1
		2.2.2 3.10 1.1000111			
	1				
	L		1	1	

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Computer Communications Model CC-40	Computer Optics CO:77	Conrac 401 Series	Conrac 480 Series (Models 8, 12, & 25)	Control Data Model 711	
TERMINAL DESCRIPTION						1
Processor control	No	No	401 Plus only	No	No	ı
Memory range, bytes	- Yes	Yes	Yes	– Yes	— Yes	١
Stand-alone unit Local cluster arrangement	Yes No	No	No	No	No	ı
Remote cluster arrangement	No	Yes	Yes	Yes	No	١
Max. no. of displays/controller	15	32	16	8/16/32	_	١
Max. no. of printers/controller	_	31	-	_	_	ı
Max. no. of devices/controller	_	32	16	8/16/32	-	ı
Any mix of screen sizes/controller	_	Yes	No		_	l
Computer interface Portable case	No No	Yes No	No No	No No	_ No	I
COMPATIBILITY						İ
IBM 3270/3275	No	Std.	Opt.	No	No	l
IBM 2260/2265	Opt.	No	No	No	No	ı
Teletype 33/35 Teletype 40	No No	No No	Opt. No	Std. No	No No	١
Other	No	NO	No	No	No	
PROGRAMMABILITY Programmable via:						
User-created programs	No	No	No	No	No	
User-defined parameters	No	No	No	No	No	١
Vendor-defined firmware User-defined firmware	No No	No No	Plus only No	No No	No No	ı
Vendor-supplied software	-	_	_	-	-	l
Software pricing	-	-	-	_	_	l
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars/line Display area, h x w, inches Total displayable symbols Symbol formation	960/1920 24 x 40/80 Variable 64; 96 opt. 5 x 7 dot matrix	480/960/1920 12 x 40/80;24 x 80 15 inch diag. 64; 96 opt. 7 x 9 dot matrix	2000 25 x 80 7.5 x 10 128 5 x 7 dot matrix	960/2000 12/25 x 80 7.5 x 10 64; 128 5 x 7 dot matrix	2000 25 x 80 7.5 x 10 128 5 x 7 dot matrix	
DISPLAY FEATURES						
Color	No	No	No	No	No	1
Reverse video	No	No	No	No	No	۱
Programmable brightness levels	No	2 std.	2 std.	2 std. (25)	2 std.	l
Character and/or field blinking	Both std.	No	Std.	Std. (8 & 25)	No	l
Roll Paging	No Yes	No No	Std. No	Std.; opt. (8 & 12) No	Up std. No	
CURSOR CONTROL						
Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	١
Right, Home, Return				0.1 (40 0 0=)	a	
Cursor blinking Addressable/readable cursor	Std. Std.	No Std.	Std. Std.	Std. (12 & 25) Std. (25)	Std. No	
ORMAT CONTROL						
Protected format	Std.	Std.	Std.; plus only	Std.; opt. (8 & 12)	No	١
Format creation via keyboard	Std.	Std.	Std.; plus only	-	No	١
Format editing via keyboard	Std.	Std.	Std.; plus only	-	No	١
Format storage	Std.	Std. Std.	Std.; plus only Std.	 Std.; opt. (12)	No Opt.	ı
Partial screen transmit Tabulation	Std. Std.	Std.	Std.	Std. (25)	Std.	
EDIT FUNCTIONS						١
Character insert/delete	No	Std.	Std.	Std.; opt. (8 & 12)	Opt.	
Line insert/delete	No	Opt.	Std.	Std.; opt. (8)	Opt.	l
Character erase	Std.	Std.	Std.	Std.	Std.	I
Line erase	Std.	Std. Std.	Std. Std.	Std. Std.	Opt. Std.	١
Screen erase Character repeat	Std. Std.	Std. Std.	Std.	Opt.	Std.	
KEYBOARD PARAMETERS						
Style	Typewriter	Typewriter; others	Several	Teletype	Typewriter	1
Character/code set	ASCII	ASCII/EBCDIC	ASCII	ASCII	ASCII	
Detachability	Std.	Std.	Opt., plus only	No	No	
Program function keys	16 std.	Std.	20 std. & 10 opt.	10 opt.	None	١
Cursor control keys	6 std.	5 std.	6 std.	6 std.	6 std.	1
Edit function keys Numeric keypad	4 std. No	6 std. Opt.	8 std. Opt.; 3 only	Opt.	3 std.; 5 opt. Std.	
миненс кеураа	140	Opt.	Opt., 3 Unity	Opt.	J.u.	1
				1		

Part 2:

Operator Features Ancillary Features

Transmission Features Terminal Interface Transmission Parameters Line Interface

VENDOR AND MODEL	Computer Communications Model CC-40	Computer Optics CO:77	Conrac 401 Series	Conrac 480 Series (Models 8, 12, & 25)	Control Data Model 711
OPERATOR FEATURES					
Numeric keylock	No	Opt.	-		No
Audible alarm Keylock	Opt. No	Opt. Opt.	Std.	Std.	Std. No
Operator I.D. card reader	No	Opt.	No	No	No
Light pen	Opt.	Opt.	No	No	No
ANCILLARY DEVICES Cassette tape drive	No	No	No	RS-232 (25)	No
Diskette drive (floppy disk)	No	No	2 ports opt.	RS-232 (25)	No
Serial printer	Impact/non-impact	Impact	2 ports opt.	Impact	Impact/non-impac
Print speed & print positions, cps Other devices	– None	275 @ 132 None	Contact vendor	Contact vendor	None
TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Unit code structure, bits/char. Speed, bits/second	Half/full-duplex Async./sync. ASCII ASCII 8/10 150 to 9600	Half/full-duplex Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 9600	Half/full-duplex Async./sync. ASCII; others opt. ASCII 8/10/11 110-9600;50K opt.	Half/full-duplex Asynchronous ASCII ASCII 10/11 110-9600;50K opt.	Half-duplex Synchronous ASCII/CDC BSC ASCII 8 2000 to 4800
Operator selectable speeds Format: character, line, or block	 Block only	- Block only	 Char./block	– Char./block	No Block
TRANSMISSION FEATURES Multipoint operation (pollable/addr.) Auto answer	Std. Std.	Std. Opt.	Std., plus only No	Opt. (25 only) Std.	Std. Std.
Auto call	No	No	No	_	No
TERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C
LINE INTERFACE External modem required Integral modem Integral acoustic coupler Vendor-supplied external modem	Yes No No No	Yes No No	Yes No No	Yes No No No	Yes No No No
DIAGNOSTICS					
Self diagnostics	No	No	No	No	No
In line	No	No	No	No	No
On line Off line	No No	No No	No No	No No	No No
PRICING (Price range shows cost of basic unit and unit with all options) Lease pricing including maintenance: Display station, 1 year lease, \$/mo.	_	50-73	-	_	_
Display station, 2 year lease, \$/mo.	-		-	_	110
Display station, 3 year lease, \$/mo.	115-194	46-66	 	_	
Serial printer, 1 year lease, \$/mo. Serial printer, 2 year lease, \$/mo.		***	_	_	-
Serial printer, 3 year lease, \$/mo.	_		-	-	_
Controller, 1 year lease, \$/mo.	_	290-295	-	_	
Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo.	_	260-270 	_	_	
Purchase price:					
Display station, \$	_	1,707-2,335	1,800-3,600	1,000-2,600	3,969-4,662
Serial printer, \$ Controller, \$	_ 3,850-5,600	- 8,632	3,000-6,000	_ 3,000-5,000	_
Software, \$		_	1_	_	
Quantity discounts available	-		Yes	Yes	
AVAILABILITY Date of first production delivery Display units installed to date Serviced by No. of service locations	3/74 Over 200 CCI	1st qtr. 1974 Over 2,000 COI	9/70; 5/75 (Plus) Over 5,000 Conrac & Sorbus	73/74; 75 (25) Conrac & Sorbus 	6/71 1,000 CDC
COMMENTS	Controller price includes one display unit		Model 401-B is equipped with Burroughs interface; Model 401 Plus is microprocessor-based and is available with programming support		

Part 1:

Terminal Description Compatibility Programmability

Display Organization Display Features Cursor Control

VENDOR AND MODEL	Control Data Model 713	Control Data Model 714	Control Data Model 92451	Control Data Model 92452	Courier Executerm 60 & 260
TERMINAL DESCRIPTION					
Processor control	No	No	Microprocessor	No	No
Memory range, bytes	17	1	See Comments	- Yes	- No
Stand-alone unit	Yes	No	Yes No	No	Yes
Local cluster arrangement	No No	No Yes	No	No	Yes
Remote cluster arrangement Max. no. of displays/controller	INO	15	100	_	32
Max. no. of printers/controller	_	1.13		_	32
Max. no. of devices/controller	_	15	3	3	32
Any mix of screen sizes/controller	<u> </u> _	1_	_	_	Yes
Computer interface	_	No		_	Yes; IBM 360/370
Portable case	No	No	No	No	No
OMPATIBILITY IBM 3270/3275	No	No	No	No	No
IBM 2260/2265	No	No	No	No	Std.
Teletype 33/35	Yes	No	Std.	Std.	No
Teletype 40	No	No	No	No	No
Other	No	No	No	No	No
PROGRAMMABILITY Programmable via: User-created programs User-defined parameters Vendor-defined firmware User-defined firmware	No No No No	No No No No	No Yes Yes Yes	No Yes Yes Yes	No No No No
Vendor-supplied software	No	No	No	No	No
0.6					_
Software pricing		_	_	_	_
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, linesxchars./line Display area, h x w, inches Total displayable symbols Symbol formation	640/1280 opt. 8/16 x 80 8 x 10 64; 96 opt. 5 x 9 dot matrix	640/1280 8/16 x 80 8 x 10 64; 96 opt. 5 x 9 dot matrix	960; 1920 opt. 12×80;24×80 opt. 8 × 5.25 128 7 × 9 dot matrix	1920 12 x 80; 24 x 80 opt. 8 x 5.25 128 7 x 9 dot matrix	480/960/1920 12 x 40/80; 24 x 80 7 x 10 64 7 x 8 dot matrix
DISPLAY FEATURES					
Color	No	No	No	No	No
Reverse video	No	Opt.	No	No	No
Programmable brightness levels	No	2 std.	2 opt.	2 opt.	No Field std.
Character and/or field blinking	No	No	Both opt.	Both opt.	rieia sta.
Roll Paging	Std. No	Std. No	Up std. 2 pg. opt.	No No	Up std. –
CURSOR CONTROL Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H	U, D, L, R, H	U, D, L, R, H, Rt.
Right, Home, Return	Chal	Std.	Std.	Std.	Std.
Cursor blinking Addressable/readable cursor	Std. No	No	Std.	Std. addressable only	Std. addressable- line only
ORMAT CONTROL			0	·	Std.
Protected format	-		Opt.	No No	Std.
Format creation via keyboard	_	_	Opt.	No No	Std.
Format editing via keyboard	-	_	Opt.	No	Std.
Format storage Partial screen transmit	Std.	Opt.	Opt.	No	Std.
Tabulation	No.	No	Opt.	No	Std.
EDIT FUNCTIONS					
Character insert/delete	No	Opt.	Opt.	No	Std.
Line insert/delete	No	Opt.	Opt.	· No	No Stal
Character erase	Std.	Std.	Std.	Std. Std.	Std. Std.
Line erase	No Std	Opt. Std.	Std. Std.	Sta. Std.	Std.
Screen erase Character repeat	Std. Std.	Sta. Std.	Std.	Std.	Std.
KEYBOARD PARAMETERS Style	Typewriter Teletype	Typewriter	Typewriter ASCII	Typewriter ASCII	Typewriter/ data entry ASCII/EBCDIC
Character/ands set	No	No	Std.	Std.	No
Character/code set	1 140		4 std.	Opt.	8 opt.
Detachability		l No		Opt.	
Detachability Program function keys	No	No Std.		Opt.	6 std.
Detachability		No Std. Opt.	5 std. 4 std.	Opt. Opt.	6 std. 6 std.
Detachability Program function keys Cursor control keys	No Std.	Std.	5 std.	Opt.	6 std.
Detachability Program function keys Cursor control keys Edit function keys	No Std. No	Std. Opt.	5 std. 4 std.	Opt. Opt.	6 std. 6 std.

Part 2:

Operator Features Ancillary Features

Transmission Features Terminal Interface Transmission Parameters Line Interface

VENDOR AND MODEL	Control Data Model 713	Control Data Model 714	Control Data Model 92451	Control Data Model 92452	Courier Executerm 60 & 260
OPERATOR FEATURES					
Numeric keylock Audible alarm	Std.	_ Std.	No Std.	No Std.	No Opt.
Keylock	-	- ota.	No	No	No
Operator I.D. card reader	No	No	No	No	No
Light pen	No	No	No	No	No
ANCILLARY DEVICES	,	1			
Cassette tape drive	No	No	S-D opt.	No	No
Diskette (floppy disk) Serial printer	No Non-impact	No Impact/non-impact	S-D opt. Impact/non-impact	No Impact/non-impact	No Impact
Print speed & print positions, cps	-		-	-	132 @ 165 cps
Other devices	None	None	None	None	None
TRANSMISSION PARAMETERS					
Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half-duplex
Technique	Asynchronous	Async./sync.	Asynchronous	Asynchronous	Asynchronous
Communications protocol	ASCII	ASCII/CDC BSC	ASCII	ASCII	ASCII
Code Unit code structure, bits/char.	ASCII 10	ASCII 10	ASCII 10/11	ASCII 10/11	ASCII 10
Speed, bits/second	75 to 300	2000 to 4800	110 to 9600	10/11 110 to 9600	10 1200 to 4800
Operator selectable speeds	-		10 std.	10 std.	-
Format: character, line, or block	Char. only	Char./block	Char./block/line	Char./block/line	Block only
TRANSMISSION FEATURES Multipoint operation (pollable/addr.)	Std	Std.	Ont	No	C+4
Auto answer	Std. No	Std. Std.	Opt. Opt.	No No	Std. No
Auto call	No	No.	No.	No	No
TERMINAL INTERFACE	RS-232C	RS-232C	DC 222 D/O	DC 000 D/O	50.000
TERMINAL INTERFACE	N3-232C	N3-232C	RS-232 B/C, CCITT V.24	RS-232 B/C, CCITT V.24	RS-232C
LINE INTERFACE External modem required Integral modem Integral acoustic coupler Vendor-supplied external modem	Yes No No	Yes No No	No Opt. No No	Yes No No No	Yes; remote only No No No
	110	110	1	140	NO
DIAGNOSTICS Self diagnostics	No	No	Yes	No	No
In line	No	No	No	No	No
On line	No	No	No	No	Yes
Off line	No	No	Yes	No	No
PRICING (Price range shows cost of basic unit and unit with all options)					
Lease price including maintenance:					
Display station, 1 year lease, \$/mo.	63	85	-	-	
Display station, 2 year lease, \$/mo.	_	-	_	_	78-115
Display station, 3 year lease, \$/mo. Serial printer, 1 year lease, \$/mo.	_		- - -		
Serial printer, 2 year lease, \$/mo.	_	_		_	
Serial printer, 3 year lease, \$/mo.	_	-		-	_
Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo.	_	140-158	<u> </u>	_	 100-300
Controller, 3 year lease, \$/mo.		_	_	_	
Purchase price:					
Display station, \$ Serial printer, \$	2,095-2,448	3, 46 5-4, 0 95	2,000-2,350	1,000-1,500	1,500-2,500
Controller, \$	_	_	_	_	 2,300-6,000
Software, \$	_	-		-	_
Quantity discounts available	_	-	Yes	Yes	-
AVAILABILITY	4/71	7/70	10/75	0/76	7/70. 5/71 /05=1
Date of first production delivery Display units installed to date	4/71 2,000	7/73 250	10/75	3/76	7/70; 5/71 (260) 5,000(incl. 65/265
Serviced by	CDC	CDC	CDC	CDC	Courier 5,000
No. of service locations	-	_	_	_	_
COMMENTS			1K-6K RAM: 4K-8K PROM memory	Several versions available	
	1	1	l l		

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Courier Executerm 65 & 265	Courier 2700	Courier 2750	Data General Model 6012	Datamedia Elite 1500A
ERMINAL DESCRIPTION					
Processor control	No	No	No	No	No
Memory range, bytes	Yes	No	⊢ Yes	Yes	Yes
Stand-alone unit Local cluster arrangement	No	Yes	No	No	No
Remote cluster arrangement	No	Yes	No	No	No
Max. no. of displays/controller	_	32	 -	-	-
Max. no. of printers/controller	-	32	-	_	_
Max. no. of devices/controller Any mix of screen sizes/controller	_	32 Yes		_	_
Computer interface	No	IBM 360/370	No	No	
Portable case	No	No	No	No	No
COMPATIBILITY					
IBM 3270/3275	No	Std.	Std.	No	No
IBM 2260/2265	Std.	Opt.	No	No	No
Teletype 33/35	No	No	No	Std.	Std.
Teletype 40	No No	No No	No No	No No	No No
Other	NO	NO	NO INC	140	140
ROGRAMMABILITY		i			
Programmable via: User-created programs	No	No	No	No	No
User-defined parameters	No	No	No	No	No
Vendor-defined firmware	No	No	No	No	No
User-defined firmware	No	No	No	No	No
Vendor-supplied software	No	No	No	No	No
Software pricing	-	_	_	! -	_
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation	240/480/960/1920 6/12×40;12/24×80 7 × 10 64 7 × 8 dot matrix	480/960/1920 12×40/80;24×80 7 × 10 64; 96 opt. 7 × 10 dot matrix	480/960/1920 12×40/80;24×80 7×10 64; 96 opt. 7×10 dot matrix	1920 24 x 80 7 x 9 64 5 x 7 dot matrix	256/480/960/ 1440/1920 8 x 32;6 to 24 x 8 1.5/3/4.5/6 x 9 64 5 x 7 dot matrix
DISPLAY FEATURES					
Color	No	No	No	No	No No
Reverse video	No No	No 2 std.	No 2 std.	No No	No
Programmable brightness levels Character and/or field blinking	Field std.	Field std.	Field std.	Both std.	No
Roll	Up std. No	No No	No No	Std.	Up std. No
Paging	NO	140	110		
CURSOR CONTROL Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, R
Right, Home, Return	0, 0, 2,,,				
Cursor blinking	Std.	Std.	Std.	Std.	No
Addressable/readable cursor	Std. addressable- line only	Std.	Std.	No	No
ORMAT CONTROL	e omy				
Protected format	Std.	Std.	Std.	Std.	No
Format creation via keyboard	Std.	Std.	Std.	Std.	No No
Format editing via keyboard Format storage	Std. Std.	Std. Std.	Std.	Std. Std.	No
Partial screen transmit	Std.	Std.	Std.	Std.	No
Tabulation	Std.	Std.	Std.	Std.	No
DIT FUNCTIONS					
Character insert/delete	Std.	Std.	Std.	No	No
Line insert/delete	No	No	No	No	No No
Character erase	Std. Std.	Std. Std.	Std. Std.	Std. Std.	I No
Line erase Screen erase	Std.	Std.	Std.	Std.	Std.
Character repeat	Std.	Std.	Std.	Std.	Std.
EYBOARD PARAMETERS	Typewriter/	Typewriter/	Typewriter/	Typewriter/	
Style	data entry	data entry	data entry	data entry	Typewriter
Character/code set	ASCII	ASCII/EBCDIC	ASCII/EBCDIC	ASCII	ASCII Std.
Data ab al-ilita:	No 8 opt.	Std. 6/12 std.	Std. 6/12 std.	No No	Sta.
	լ օ օր ե		Std.	6 std.	6 std.
Detachability Program function keys Cursor control keys	Std.	I Sta.			
	Std. Std.	Std. Std.	Std.	4 std.	2 std.
Program function keys Cursor control keys					2 std. Opt.

Part 2:

Operator Features
Ancillary Features
Transmission Parameters

Transmission Features Terminal Interface Line Interface

VENDOR AND MODEL	Courier Executerm 65 & 265	Courier 2700	Courier 2750	Data General Model 6012	Datamedia Elite 1500A
OPERATOR FEATURES Numeric keylock Audible alarm	No Opt.	Opt. Opt.	Opt. Opt.	No Opt.	No Std.
Keylock Operator I.D. card reader Light pen	No No No	Opt. Opt. Opt.	Opt. Opt. Opt.	No No No	No No No
ANCILLARY DEVICES Cassette tape drive Diskette drive (floppy disk)	No No	Na No	No No	No No	No No
Serial printer Print speed & print positions, cps Other devices	Impact 80 None	Impact — 80 -col. card reader	Impact — None	No — None	RS-232 interface — None
TRANSMISSION PARAMETERS Mode Technique	Half-duplex	Half-duplex	Half-duplex	Half/full-duplex	Half/full-duplex
Communications protocol Code	Asynchronous ASCII ASCII	Synchronous BSC ASCII/EBCDIC	Synchronous BSC ASCII/EBCDIC	Asynchronous ASCII ASCII	Asynchronous ASCII ASCII
Unit code structure, bits/char. Speed, bits/second Operator selectable speeds Format: character, line, or block	8 1200 to 4800 No Block only	8 1200 to 9600 No Block only	8 1200 to 9600 No Block only	10 110-4800 Char./block	10 50 to 4800
TRANSMISSION FEATURES Multipoint operation (pollable/addr.)	Std.	Std.	Std.	No	Char. only No
Auto answer Auto call	No No	No No	No No	No No	Opt. No
TERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C
LINE INTERFACE External modem required	Yes; remote only	Yes; remote only	Yes	Yes	Yes
Integral modem Integral acoustic coupler Vendor-supplied external modem	No No No	No No No	No No No	No No No	Opt. No No
DIAGNOSTICS Self diagnostics In line	No	No	No	No	No
On line Off line	No Yes, IBM No	No Yes, IBM No	No Yes, IBM No	No No No	No No No
PRICING (Price range shows cost of basic unit and unit with all options) Lease price including maintenance:					
Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo.	 83-140 	_ 111-244 98-197	_ 143-344 129-314	- - -	65 65 —
Serial printer, 1 year lease, \$/mo. Serial printer, 2 year lease, \$/mo. Serial printer, 3 year lease, \$/mo.	_ _ _	 100-180 93-164	 100-180 93-164		_ _ _
Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo.	_ _ _	 135-460 123-401	- -	- - -	_ _ _
Purchase price: Display station, \$ Serial printer, \$	1,700-3,230 —	3,100-5,825 -	4,150-6,975 	2,700 —	1,250-1,430 —
Controller, \$ Software, \$ Quantity discounts available	_ _ _	4,200-9,650 	- - -	150 Yes	- -
AVAILABILITY Date of first production delivery	7/70; 4/71 (265)	1/74	1/74	9/74	2/72
Display units installed to date Serviced by No. of service locations	5,000 (incl.60/260) Courier —	9,000(incl. 2750) Courier —	9,000 (incl. 2700) Courier —	Data General	Datamedia
COMMENTS		Uses standard IBM 3270 cables			Also available as
					ASCII or Baudot

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

ERMINAL DESCRIPTION		APL/ASCII	Elite 2000A	Elite 2100A	Elite 2500A
	1				
Processor control	No	No	No	No	No
Memory range, bytes	 -	I =	E.	l =	
Stand-alone unit	Yes	Yes	Yes	Yes	Yes
Local cluster arrangement	No	No	No	No	No
Remote cluster arrangement	No	No	No	No _	No
Max. no. of displays/controller Max. no. of printers/controller	- -	<u>-</u>		[_	_
Max. no. of devices/controller	<u> </u>	1_		l <u> </u>	_
Any mix of screen sizes/controller	_	<u> </u>	_	i _	-
Computer interface	l_	_	<u>_</u>	_	l -
Portable case	No	No	No	No	No
OMPATIBILITY					
IBM 3270/3275	No	No	No	No	No
IBM 2260/2265	No	No	No	No	No Std.
Teletype 33/35	Std. No	Std.	Std. No	Std. No	No
Teletype 40 Other	No	No No	No	No	No
Other		1,10		110	
ROGRAMMABILITY					
Programmable via:		l			
User-created programs	No	No	No	No	No
User-defined parameters	No	No	No	No	No
Vendor-defined firmware	No	No	No	No	No
User-defined firmware	No	No	No	No	No No
Vendor-supplied software	No	No	No	No	NO
Software pricing	-	_	-	-	_
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, linesx chars./line Display area, h x w, inches Total displayable symbols	6 x 9 64; 128 opt.	1920 24 x 80 6 x 9 64; 128 opt.	960/1440/1920 12/18/24 × 80 3/4.5/6 × 9 64	1440/1920 18/24 × 80 4.5/6 × 9 64	1920 24 x 80 6 x 9 127
Symbol formation	5 x 7/9 dot matrix	5 x 7/9 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7/9 dot matrix
DISPLAY FEATURES	1			NI -	NI-
Color	No	No	No	No No	No No
Reverse video Programmable brightness levels	No No	No No	No No	No	2 std.
Character and/or field blinking	No	No	No	No	Both std.
Roll Paging	Up std.	Up std. No	Up std. -	No -	Up std. —
URSOR CONTROL Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.
Right, Home, Return					
Cursor blinking Addressable/readable cursor	Std.; non-blink opt. Std. addressable only	Std. Std. addressable only	No No	No Std. addressable only	Opt. Std. addressable only
ORMAT CONTROL		, i	1	-	·
Protected format	No	No	No	No	Std.
Format creation via keyboard	No	No	No	No	Std.
Format editing via keyboard	No	No	No	No	Std.
Format storage Partial screen transmit	No No	None No	No Std.	No Std.	Std. Std.
Tabulation	No	Std.	No	No	Opt.
DIT FUNCTIONS					
Character insert/delete	No	No	No	No	Opt.
Line insert/delete	No	No	No	No	Opt.
Character erase	Std.	Std.	Std.	Std.	Std.
Line erase	Std.	Std.	Std.	Std.	Std.
Screen erase Character repeat	Std. Std.	Std. Std.	Std. Std.	Std. Std.	Std. Std.
CEYBOARD PARAMETERS			-		
	Typewriter	Typewriter	Typewriter	Typewriter	Typewriter
Style	ASCII	ASCII/APL	ASCII	ASCII	ASCII
Style Character/code set		Std.	Std.	Std.	Std.
Character/code set	IStd.			,	
Character/code set Detachability	Std. No		No	l No	8 std.
Character/code set	Std. No 6 std.	No 5 opt.	No 6 std.	No 6 std.	8 std. 6 std.
Character/code set Detachability Program function keys	No	No			
Character/code set Detachability Program function keys Cursor control keys	No 6 std.	No 5 opt.	6 std.	6 std.	6 std.

Part 2:

Operator Features Ancillary Features Transmission Parameters

Transmission Features
Terminal Interface
Line Interface

VENDOR AND MODEL	Datamedia Elite 1520A	Datamedia Elite 1520 APL/ASCII	Datamedia Elite 2000A	Datamedia Elite 2100A	Datamedia Elite 2500A
OPERATOR FEATURES					
Numeric keylock Audible alarm	No	No	No	No	No
Keylock	Std. No	Std. No	Std. No	Std. No	Std. No
Operator I.D. card reader	No	No	No	No	No
Light pen	No	No	No	No	No
ANCILLARY DEVICES Cassette tape drive	No	No	No	No	NI-
Diskette drive (floppy disk)	No	No	No I	No No	No No
Serial printer	RS-232 interface	No	RS-232 interface	RS-232 interface	RS-232 interfac
Print speed & print positions, cps Other devices	– None	– None	_ None	– None	– None
TRANSMISSION PARAMETERS Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Full dumlan	11-14/4-11 11
Technique	Asynchronous	Asynchronous	Asynchronous	Full-duplex Asynchronous	Half/full-duplex Asynchronous
Communications protocol	ASCII	ASCII	ASCII	ASCII	ASCII
Code	ASCII	APL/ASCII	ASCII	ASCII	ASCII
Unit code structure, bits/char. Speed, bits/second	10	10/11	10	10	10
Operator selectable speeds	50 to 9600 No	50 to 9600 No	50 to 1800 No	50 to 9600 No	50 to 9600 No
Format: character, line, or block	Char. only	Char. only	Char./block	Block only	Char./block
TRANSMISSION FEATURES	No		l		_
Multipoint operation (pollable/addr.) Auto answer	No No	No No	No Opt.	Std. No	Opt. Opt.
Auto call	No	No	No	No	No
TERMINAL INTERFACE	RS-232C	RS-232C, CCITT V.24	RS-232C	RS-232C	RS-2 32C
LINE INTERFACE					
External modern required	Yes	Yes	Yes	Yes	Yes
Integral modem	Opt.	Opt.	Opt.	Opt. 1200 bps	Opt.
Integral acoustic coupler	No	No	No	No	No
Vendor-supplied external modem	No	No	No	No	No
DIAGNOSTICS Self diagnostics	No	Na	N-		
In line	No I	No No	No No	No No	No No
On line	No	No	No I	No	No
Off line	No	-	No	No	No
PRICING (Price range shows cost of basic unit and unit with all options)					
Lease pricing inlouding maintenance:					
Display station, 1 year lease, \$/mo.	65-75	85	75	-	85-95
Display station, 2 year lease, \$/mo.	65-75	85	75	-	85-95
Display station, 3 year lease, \$/mo. Serial printer, 1 year lease, \$/mo.	_	_	_	_	_
Serial printer, 2 year lease, \$/mo.	_	_	_	_	_
Serial printer, 3 year lease, \$/mo.	_	_	_	_	_
Controller, 1 year lease, \$/mo.	-	_	-	_	_
Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo.	_	_	_	-	_
Purchase price:		_	_	-	_
Display station, \$	1,555-1,705	2,150-2,225	1,775-1,895	2,035-2,095	2,080-2,480
Serial printer, \$ Controller, \$	-	_	-	-	
Software, \$	_	_	_	_	_
Quantity discounts available	Yes	Yes	Yes	Yes	Yes
AVAILABILITY Data of first production delivery	1/76	6/75	0/70	10/70	7.70
Display units installed to date	1/75 —	6/75 —	9/70	10/72	7/73
Serviced by No. of service locations	— Datamedia	_ Datamedia	_ Datamedia	_ Datamedia	 Datamedia
COMMENTS	_	For APL users	_	-	_
i			ı İ		

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Data 100 Model 73	Data Pathing 3101 & 3102	Data Pathing MIT 130 System	Datapoint 1100	Datapoint 2200
TERMINAL DESCRIPTION Processor control Memory range, bytes	No -	Minicomputer 1000 to 1920	Minicomputer 32K to 64K	Minicomputer 4K to 16K	Minicomputer 4K to 16K
Stand-alone unit Local cluster arrangement Remote cluster arrangement	Yes No No	Yes No No	No Yes Yes 12 to 48	Yes No No	Yes Yes Yes 8
Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller	_ _ _	None - No	12 to 48 16 64 Std.	_ _ _	8 16 No
Computer interface Portable case	No No	No No	No No	No No	No No
COMPATIBILITY IBM 3270/3275 IBM 2260/2265	No No	No No	Yes Yes	No No	No No
Teletype 33/35 Teletype 40 Other	Std. No No	No No None	No No No None	Yes No 2780,3780,HASP, UT200, DATA- SHARE, DCT	Yes No 2780,3780,HASP UT200, DATA- SHARE, DCT
PROGRAMMABILITY Programmable via: User-created programs	No	Yes	Yes	2000 Yes	2000 Yes
User-defined parameters Vendor-defined firmware User-defined firmware	No No No	Yes No No	Yes Yes No	Yes Yes No	Yes Yes No
Vendor-supplied software	_	Language & op. system	Language & op. system	Language & op. system, others	Language & op. system, others
Software pricing	_	Std.	Std.	Std.	Std.
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, linesxchars./line Display area, h x w, inches Total displayable symbols Symbol formation	960/1920 12/24 x 80 6 x 9 64 5 x 7 dot matrix	1000/1920 20 x 50; 24 x 80 7 x 9 66 5 x 7 dot matrix	240/480/960/1920 6/12×40; 12/24×80 7 × 9 64 7 × 9 dot matrix	960 12 x 80 char. 3.5 x 7 128 5 x 7 dot matrix	960 12 x 80 char. 3.5 x 7 128 5 x 7 dot matrix
DISPLAY FEATURES Color	No	No	No	No	No
Reverse video Programmable brightness levels Character and/or field blinking	No No No	No No Both std.	No 2 std. Both std.	No No No	No No No
Roll Paging	Up std. —	Std., up & down Unlimited	No Unlimited	Up std. Programmable	Up std. Programmable
CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking	U, D, L, R, H	U, D, L, R, H, Rt., Tab, BS Std.	U, D, L, R, Tab, BS, B Tab Std.	U, D, L, R, H, Rt. Std.	U, D, L, R, H, Rt
Addressable/readable cursor	Std.; addressable only	Std.	Std.; addressable only	Std.; addressable only	Std.; addressable only
Format contract Format creation via keyboard Format editing via keyboard	No No No	Std. No No	Std. No No	No Yes Yes	No Yes Yes
Format storage Partial screen transmit Tabulation	No Std. Std.	Unlimited Std. Std.	Unlimited Std. Std.	Programmable Programmable Std.	Programmable Programmable Std.
EDIT FUNCTIONS Character insert/delete Line insert/delete	No No	Std. Std.	Std. No	Std. Std.	Std. Std.
Character erase Line erase	No No No	Std. Std. Std.	Std. Std. Std.	Std. Std. Std.	Std. Std. Std.
Screen erase Character repeat	Std.	Std.	Std. Typewriter/	No	No
KEYBOARD PARAMETERS Style Character/code set	Teletype ASCII	Typewriter ASCII	Block Alphameric Data Entry/others EBCDIC	Typewriter ASCII	Typewriter ASCII
Detachability Program function keys Cursor control keys	No No 5 std.	Std. No Std.	Std. 12 to 20 std. Std.	No Programmable Std.	No Programmable Std.
Edit function keys	1 std.	Std.	Std.	Std.	Std.

Part 2:

Operator Features Ancillary Features

Transmission Features Terminal Interface Transmission Parameters Line Interface

	Data 100	Data Pathing	Data Pathing	Datapoint	Datapoint
VENDOR AND MODEL	Model 73	3101 & 3102	MIT 130 System	1100	2200
OPERATOR FEATURES		No.	Cod	No	No
Numeric keylock Audible alarm	No Std.	No Opt.	Std. Opt.	Std.	Std.
Keylock	No	No	Opt.	No	No
Operator I. D. car d reader Light pen	No No	No No	Opt. No	No No	No No
ANCILLARY DEVICES Cassette tape drive	No	No	No	Dual	Dual
Diskette drive (floppy disk)	No No	No No	No	To 4 spindles	To 4 spindles
Serial printer	RS-232 interface	Impact	Impact	Impact	Impact
Print speed & print positions, cps Other devices	 None	100@80; 165@132 None	100@80; 165@132 Card reader	120 @ 120 Disk, tape drives, card reader	120 @ 120 Disk, tape drives, card reader
TRANSMISSION PARAMETERS		11.16.1	11.15/5	11.15/feeth books	Half/fail tamban
Mode Technique	Half-duplex Async./sync.	Half-duplex Synchronous	Half/full-duplex Synchronous	Half/full-duplex Async./sync.	Half/full-duplex Async./sync.
Communications protocol	ASCII/BSC	DPI BSC	SDLC	ASCII	ASCII
Code Unit code structure, bits/char.	ASCII 10	ASCII 8	EBCDIC 8	ASCII 10	ASCII 10
Speed, bits/second	110 to 1200	2400	2400 to 9600	Up to 9600	Up to 9600
Operator selectable speeds Format: character, line, or block	No Char. only	No Block only	No Block only	No Char./block	No Char./block
TRANSMISSION FEATURES					l
Multipoint operation (pollable/addr.) Auto answer	No No	Std. No	Std. No	No Std.	No Std.
Auto call	No	No	No	Std.	Std.
TERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232B/C	RS-232B/C
LINE INTERFACE					
External modem required	Yes	Opt.	Opt.	Yes	Yes
Integral modem Integral acoustic coupler	No No	Yes No	Opt. No	Opt. No	Opt. No
Vendor-supplied external modem	No	Opt.	Opt.	Opt.	Opt.
DIAGNOSTICS Self diagnostics	No	Yes	Yes	Yes	Yes
In line	No	Yes	Yes	No	No
On line Off line	No No	Yes Yes	Yes Yes	No Yes	No Yes
PRICING (Price range shows cost of					
basic unit and unit with all options) Lease price including maintenance:			Contact vendor		
Display station, 1 year lease, S/mo.	105	138; 170	for all pricing	211-273	284
Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo.	97	_ 128; 160	_	200-254 173-224	260 234
Serial printer, 1 year lease, S/mo.	_	143; 192	[_	165	165
Serial printer, 2 year lease, S/mo.	_	-		144	144
Serial printer, 3 year lease, S/mo. Controller, 1 year lease, S/mo.	_	132; 176	-	140 -	140
Controller, 2 year lease, \$/mo.	_	_	-	_	_
Controller, 3 year lease, S/mo.	-	-	-	_	_
Purchase price: Display station, \$	3,360	6,090; 7,455		7,200-12,880	8,571
Serial printer, S	l —	6,300; 8,400	-	5,500	5,500
Controller, S Software, S	_	_		_	_
Quantity discounts available	_	Contact vendor	_	Yes	Yes
AVAILABILITY	0.72	4070	0.70	4/74	4/70
Date of first production delivery Display units installed to date	8/70	1970 1000	2/76	1/74 3,000	4/72 8,000
Serviced by	Data 100	Data Pathing Inc.	Data Pathing Inc.	Datapoint	Datapoint
No. of service locations	_			63	63
COMMENTS		Turnkey support for source data management; con- trolled by DPI comm. processor	Turnkey support for source data management; con- trolled by DPI comm. processor		
		Comm. processor	Committeessor		
	L		L		

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Datapoint 3000 & 3300	Datapoint 3500 (3360)	Datapoint 3600	Datapoint 5500	Delta Data Systems Model 4000
FERMINAL DESCRIPTION					
Processor control	No	No	No	Minicomputer	Microprocessor
Memory range, bytes	-	l –	-	48K	3K
Stand-alone unit	Yes	Yes	Yes	Yes	Yes
Local cluster arrangement	No	No	No	Yes	Yes
Remote cluster arrangement Max. no. of displays/controller	No	No	No	Yes 16	Yes 95
Max. no. of printers/controller	-	_	_	16	2
Max. no. of devices/controller		_	_	32	95
Any mix of screen sizes/controller			_	No	Opt.
Computer interface	No	No	No	No	No
Portable case	No	No	No	No	No
COMPATIBILITY					
IBM 3270/3275	No	No	No	No	Opt.
IBM 2260/2265	No	Std.	No	No	Opt.
Teletype 33/35	Std.	No	No	Yes	Std.
Teletype 40 Other	No Datashare	No Datashare	No Datashare	No 2780,3780,HASP,	Opt. Various protoco
Other	Datasnare	Datasnare	Datasnare	UT200, DCT	available
				2000, DATA-	available
ROGRAMMABILITY				SHARE	
Programmable via:				l i	
User-created programs	No	No	No	Yes	Opt.
User-defined parameters	No	No	No	Yes	Opt.
Vendor-defined firmware	No	No	No	Yes	Yes
User-defined firmware Vendor-supplied software	No No	No No	No No	No	Opt.
vendor-supplied software	NU	NO	INO I	Language, op. sys- tem, assembler, &	_
				others	
Software pricing	_	_	_	Std.	Std.; extra cost
DISPLAY ORGANIZATION					
Display positions, chars./display	1800	2048	1920	960	2048
Display arrangement, lines x chars/line	25 x 72	25 x 82	24 × 80	12 × 80	25 x 80
Display area, h x w, inches	7.5 × 10	5 × 8	5 x 8	3.5 × 7	6.x 11
Total displayable symbols	64	64	96	128	224
Symbol formation	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix
DISPLAY FEATURES					
Color	1 color std.	1 color std.	1 color std.	1 color std.	No
Reverse video	No	No	No	No	Std.
Programmable brightness levels Character and/or field blinking	No No	No No	No No	No No	Opt. Both std.
Character and/or field billiking	NO	140	INO	140	Both std.
Roll Paging	Up std. No	No No	Up std. No	Up std.	Up & down std. Std.
raying	NO	NO	INO	Programmable	Sta.
CURSOR CONTROL					
Cursor positioning; Up, Down, Left, Right, Home, Return	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, F
Cursor blinking	Std.	Std.	Std.	Std.	Std.
Addressable/readable cursor	No.	Std. addressable	Std. addressable	Std. addressable	Std.
		only	only	only	
ORMAT CONTROL		l	l., l	<u></u>	
Protected format	No	No	No	No Van	Std.
Format creation via keyboard	No Std	No Std	No C+d	Yes Yes	Std. Std.
Format editing via keyboard Format storage	Std. None	Std. None	Std. None	y es Programmable	Up to mem, size
Partial screen transmit	No	No	No	Programmable	Std.
Tabulation	No	Std.	Std.	Std.	Std.
TOLT FLINGTIONS					
DIT FUNCTIONS Character insert/delete	No	No	No	Std.	Std.
Line insert/delete	No No	No No	No No	Sta. Std.	Std. Std.
Character erase	Std.	Std.	Std.	Std.	Std.
Line erase	Std.	Std.	No	Std.	Std.
Screen erase	Std.	Std.	No	Std.	Std.
Character repeat	Std.	Std.	No	No	Std.
EYBOARD PARAMETERS					Typewriter/
Style	Typewriter	Typewriter	Typewriter	Typewriter	data entry
	ASCII	ASCII	ASCII	ASCII	ASCII; others o
Character/code set	No	No	No	No	Opt.
Detachability		I NI-	No	Programmable	8 std.; others or
Detachability Program function keys	No	No			
Detachability Program function keys Cursor control keys	Std.	Std.	Std.	Std.	6 std.
Detachability Program function keys					

Part 2:

Operator Features Ancillary Features

Transmission Features Terminal Interface Transmission Parameters Line Interface

VENDOR AND MODEL	Datapoint 3000 & 3300	Datapoint 3500 (3360)	Datapoint 3600	Datapoint 5500	Delta Data Systems Model 4000
OPERATOR FEATURES Numeric keylock Audible alarm Keylock Operator I.D. card reader	No Std. No No	No Std. No No	No Std. No No	No Std. No No	 Std.
Light pen ANCILLARY DEVICES	No	No	No	No	No
Cassette tape drive Diskette drive (floppy disk) Serial printer Print speed & print positions, cps Other devices	Single No Impact 120 @ 120 None	No No Impact 120 @ 120 None	No No Impact 120 @ 120 None	Dual To 4 spindles Impact 120 @ 120 None	RS-232 interface RS-232 interface Impact/non-impact — Multiplexor with
TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Unit code structure, bits/char. Speed, bits/second Operator selectable speeds Format: character, line, or block	Half/full-duplex Asynchronous TTY ASCII 10 110 to 2400 10 std. Char. only	Half/full-duplex Async./sync. ASCII ASCII 10 300 to 4800 4 std. Block only	Full-duplex Asynchronous ASCII ASCII 10 110 to 9600 No Char. only	Half/full-duplex Async./sync. ASCII ASCII 8/10 Up to 9600 No Char./block	Half/full-duplex Async./sync. ASCII; others opt. ASCII; others opt. 8/10 110 to 9600 Char./block
TRANSMISSION FEATURES Multipoint operation (pollable/addr.) Auto answer Auto call	No No No	No No No	No No No	No Std. Std.	Opt. Opt. No
TERMINAL INTERFACE	RS-232 B/C	RS-232 B/C	RS-232 B/C	RS-232 B/C	RS-232C
LINE INTERFACE External modem required Integral modem Integral acoustic coupler Vendor-supplied external modem	Yes No No Opt.	Yes No No Opt.	Yes No No Opt.	Yes Opt. No Opt.	Yes No Opt. No
DIAGNOSTICS Self diagnostics In line On line Off line	No No No No	No No No No	No No No No	Yes No No Yes	No No
PRICING (Price range shows cost of basic unit and unit with all options) Lease price including maintenance: Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo. Serial printer, 1 year lease, \$/mo. Serial printer, 2 year lease, \$/mo. Serial printer, 3 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. Purchase price: Display station, \$ Serial printer, \$ Controller, \$ Software, \$ Quantity discounts available	85 78 71 165 144 140 - - - 2,400 5,500 - - Yes	103 95 81 165 144 140 2,900 5,500 Yes	77 70 64 165 144 140 1,950 5,500 	1,102 1,001 913 165 144 140 - - 34,500 5,500 - - Yes	155 143 165 150 2,300-3,400 3,750-5,000 Yes; 6 or more
AVAILABILITY Date of first production delivery Display units installed to date Serviced by No. of service locations	1968/1970 6,200 Datapoint 63	1/70 500 Datapoint 63	12/74 2,400 Datapoint 63	2/75 500 Datapoint 63	units 2/75 500 Delta & GTE
COMMENTS					

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Delta Data Systems Model 4500	Delta Data Systems 5000/APL, 5100, 5200, & 5500	Delta Data Systems Model 5300	Delta Data Systems Model 5280	Digi-Log Model 33 & 209 TeleComputers
TERMINAL DESCRIPTION					
Processor control	Microprocessor	No	Microprocessor	No	No
Memory range, bytes Stand-alone unit	4K to 16K Yes	Yes	4K-64K Yes	Yes	Yes
Local cluster arrangement	No	No	No	No	No
Remote cluster arrangement	Via opt. multiplex.	Via opt. multiplex.	Via opt. multiplex.	Via opt. multiplex.	No
Max. no. of displays/controller	16 (multiplexer)	16 (multiplexer)	16 (multiplexer)	16 (multiplexer)	10
Max. no. of printers/controller Max. no. of devices/controller	_	<u> </u>		_	_
Any mix of screen sizes/controller	_	_	_	_	_
Computer interface	No	No	No	No	No
Portable case	No	No	No	No	Opt.
COMPATIBILITY					
IBM 3270/3275	Opt.	Opt. w/multiterm2	Opt.	Opt. w/multiterm2	No
IBM 2260/2265	Opt.	Opt.	Opt.	Opt. w/multiterm2	No
Teletype 33/35	Std.	Std.	Opt.	Std.	Std.
Teletype 40	Opt.	Opt.	Opt.	Opt.	No
Other	No	Various protocols	Various protocols	Various	No
		available	available		
ROGRAMMABILITY		1			
Programmable via:	1				
User-created programs	Yes	No	No	No	No
User-defined parameters	Yes	No	No	No	No
Vendor-defined firmware	Yes Yes	Yes Yes	Yes Yes	Yes Yes	No No
User-defined firmware Vendor-supplied software	Yes Yes		No	r es	No
vendor-supplied software	103	140			
Software pricing	Extra cost		Std.		_
Software pricing	Extra cost	_	Stu.	_	
ISPLAY ORGANIZATION					
Display positions, chars./display	2048	1024 to 3072	1024 to 3072	1024 to 3072	640
	25 × 80	27 × 80	27 x 80	27 x 80	16 x 40/80
Display area, h x w, inches	6 x 11		6 x 11 64	6 x 11 64; 96 opt.	Variable 64
Total displayable symbols Symbol formation	224 5 x 7 dot matrix	7 x 9 dot matrix	7 x 9 dot matrix	7 x 9 dot matrix	5 x 7 dot matrix
y moon to mation	o x 7 doc mains	7 2 0 000 1110	7 7 0 000 11110	,	o ii i ao i ii a
ISPLAY FEATURES					
Color	No	No	No	No	No
Reverse video	Std.	Opt. Opt.	Opt. Opt.	Opt. Opt.	No No
Programmable brightness levels Character and/or field blinking	Opt. Both std.	Both std.	Both std.	Both std.	Both std.
Sharacter and/or field billiking	Dour sta.	Dotti sta.	Both sta.	Dota sta.	Don't star
Roll	Up & down std.	_	-	_	Up std.
Paging	Std.	Std.	Std.	Std.	No
URSOR CONTROL					
Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.
Right, Home, Return					
Cursor blinking	Std.	Std.	Std.	Std.	Opt.
Addressable/readable cursor	Std.	Std.	Std.	Std.	Std. addressable
ORMAT CONTROL					only
Protected format	Std.	Std.	Std.	Std.	No
Format creation via keyboard	Std.	Std.	Std.	Std.	No
Format editing via keyboard	Std.	Std.	Std.	Std.	No
Format storage	Up to 12K mem.	Up to mem. size	Up to mem. size	Up to mem. size	No
Partial screen transmit Tabulation	Std. Std.	Std. Std.	Std. Std.	Std. Std.	No No
i apuration	ota.	J.u.	J.u.	o.u.	
DIT FUNCTIONS					
Character insert/delete	Std.	Std.; except 5100	Opt.	Std.	No
Line insert/delete	Std.	Std.; except 5100	Opt.	Std.	No
Character erase	Std.	Std. Std.	Std. Std.	Std. Std.	Std. No
Line erase Screen erase	Std. Std.	Sta. Std.	Std.	Std.	Std.
Character repeat	Std.	Std.	Std.	Std.	Std.
·	Ì				
EYBOARD PARAMETERS	Typewriter/	Typewriter/	Typewriter/	Typewriter/	
Style	data entry	data entry	data entry	data entry	Teletype
Character/code set	ASCII	ASCII	ASCII/EBCDIC	ASCII	ASCII
Detachability	Opt.	Opt.	Opt.	Opt.	No No
Program function keys Cursor control keys	8 std. 6 std.	12 opt. 6 std.	12 opt. 6 std.	12 opt. 6 std.	140
Edit function keys	9 std.; others opt.	10 std.; others opt.	10 std.; others opt.	10 std.; others opt.	_
Numeric keypad	Std., others opt.	Std.	Std.	Std.	No
		"			
		1	1		

Part 2:

Operator Features Ancillary Features

Transmission Parameters

Transmission Features Terminal Interface Line Interface

	5000/APL, 5100,	Systems	Systems	Model 33 & 209
	5200, & 5500	Model 5300	Model 5280	TeleComputers
Opt.	Opt.	Opt.	Opt.	No
Std.	Std.	Std.	Std.	Std.
Opt.	Opt.	Opt.	Opt.	No
No	Opt. except 5500	No	Std.	No No
Single/dual	Opt.	Opt.	Single/dual	RS-232 interface
Single/dual	Opt.	Opt.	Single/dual	RS-232 interface
Impact/non-impact	Opt.	Opt.	Impact/non-impact	RS-232 interface
110 to 165 cps	10 to 165 cps	10 to 165 cps	110 to 165	—
Various	Various	Various	Various	None
Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Async./sync.	Async./opt. sync.	Async./sync.	Async./sync.	Asynchronous
ASCII; others opt.	ASCII	ASCII/EBCDIC	ASCII; others opt.	ASCII
ASCII; others opt.	ASCII	ASCII/BSC	ASCII	ASCII
10/11	10/11	10/11	10/11	10/11
110 to 9600	110 to 9600	1200/2400	110 to 9600	75 to 9600
10 std.	10 std.	8 std.	10 std.	—
Char./block	Char./block	Char./block	Char./block	Char. only
Opt.	Opt.	Opt.	Opt.	No
Opt.	Opt.	Opt.	Opt.	No
Opt.	Opt.	Opt.	Opt.	No
RS-232 B/C,	RS-232 B/C,	RS-232 B/C,	RS-232 B/C,	RS-232C
CCITT V.24	CCITT V.24	CCITT V.24	CCITT V.24	
Yes	Yes	Yes	Yes	Yes
Opt.	Opt.	Opt.	Opt.	Opt.
Opt.	Opt.	Opt.	Opt.	Opt.
Opt.	Opt.	Opt.	Opt.	No
Opt.	Opt.	Opt.	Opt.	No
No	No	No	No	No
Yes	Opt.	Opt.	Yes	No
Yes	Opt.	Opt.	Yes	No
 4,000 250 50 & up Yes	161-189 153-180 140-160 165 150 135 2,300-4,725 3,750-5,000 Yes	270 258 236 5,250 Yes, 6 or more	Contact vendor for pricing	- - - - - - - - - 1,195-1,695
- - Delta & GTE 44	1970 5,200 Delta & GTE 44	1970 300 Delta & GTE 44	 Delta & GTE 	9/72 Over 2,500 Digi-Log
Memory can be any mix of ROM, PROM, and RAM. Programmable multiplexor Mul- titerm 2 is avail- able; see Com- ments, 5000/APL	MultiTerm 2 is a microprocessor- based multiplexer with up to 64K of memory and soft- ware emulators for IBM 2260/2265 & 3270			A portable con- troller that uses separate monitor and keyboard (in- cluded in higher cost above)
	Std. Opt. Opt. No Single/dual Single/dual Impact/non-impact 110 to 165 cps Various Half/full-duplex Async./sync. ASCII; others opt. ASCII; others opt. 10/11 110 to 9600 10 std. Char./block Opt. Opt. Opt. Opt. Opt. Opt. Opt. Opt.	Std. Opt. Opt. Opt. Opt. Opt. Opt. Opt. Opt	Std. Opt. Std. Opt.	
Part 1:

Terminal Description Compatibility

Programmability

Display Organization Display Features Cursor Control

DISPLAY FEATURES	VENDOR AND MODEL	Digi-Log TeleComputer II	Digi-Log Series 300	Digi-Log Series 400	Digi-Log Series 3300 Microterm	Digital Equipment Model VT-50
Memory range, bytes			A	Na	Missansansas	No
Yes		wiicroprocessor	_ NO	NO .	—	
Local cluster arrangement No		Yes	Yes	Yes	Yes	Yes
Max. no. of displaysyscontroller 10					No	
Max. no. of printers/controller	Remote cluster arrangement				No	
Max. no. of devices/controller		10	10	10	_	
Any mix of acreen sizes/controller Computer interface Portable case Opt., 22 lbs.		_	_	_	_	
Computer interface					_	
Portable case		_	_		_	
IBM 2260/2265		Opt., 22 lbs.	Std., 10 lbs.	Std.	No	No
ISM 2286/3285 No			NI-		Vaa via miavanua	No
Teletype 33/35						
No						
No						
Programmable via: User-created programs User-defined parameters Ves No No No No Ves No No No Ves No No No Ves No No No No Ves No No No No Ves No No No No No No No N						No
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, line sx chars/line Display arrangement Display arr	Programmable via: User-created programs User-defined parameters Vendor-defined firmware User-defined firmware	Yes	No No No	No No No	Yes	No No No
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display arrangement, lines x chars/line Display area, h x w, inches Display arrangement, lines x chars/lines chars/lines x chars/lines Display arrangement, lines x chars/lines x chars/l	Software pricing	_	_	_	_	_
Display positions, chars./display Display arrangement, line x chars/line Display arrangement, line x chars/line Display area, h x w, inches Displa	Software pricing	_	_	1		
DISPLAY FEATURES Color C	Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols	16 x 40/80 Variable 64	16 x 40/80 Variable 63	16 x 40/80 Variable 128	24 x 80 Variable 128 5 x 7/9; 7 x 9 dot	12 x 80 8.7 x 4.3
No	DISPLAY FEATURES			<u>.</u>		
Reverse video Programmable brightness levels No No No No No No No N		No	No	No	No	No
Character and/or field blinking Both opt. Both opt. Both opt. Both std. Both std. Both std. No			No	No		
Roll						
Paging	Character and/or field blinking	Both opt.	Both opt.			
Cursor positioning; Up, Down, Left, Right, Home, Return Opt. Std. addressable only Opt. Std. addressable only Opt. Std. Addressable only Opt. Std. Std. Std. Std. Std. Std. Std. St			Up std. –	Up std. -	Up std. —	Up std. –
Right, Home, Return Cursor blinking Cursor blinking Cursor blinking Cursor blinking Cursor blinking Cursor blinking Cursor blinking Cursor blinking Cursor blinking Cursor blinking Cursor blinking Cursor blinking Cursor blinking Cursor blinking Cursor control keys Cursor cancer can						
Opt. Opt. Std.		U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Kt.	U, D, L, K, H, K
Addressable/readable cursor		Ont	Ont	Ont	Std.	Std.
FORMAT CONTROL						
Protected format						
Format creation via keyboard			l	[N
Format editing via keyboard						
Format storage						
Partial screen transmit						
Tabulation						
Character insert/delete No No No No Std. No Line insert/delete No No No Std. No Std. No Std. No Std. No Std. No Std. No No No Std. Std. No No <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Std.</td></td<>						Std.
Character insert/delete No No No No Std. No Line insert/delete No No No Std. No Std. No Std. No Std. No Std. No Std. No No No Std. Std. No <	EDIT FUNCTIONS					
Std. Std. No Std. St	Character insert/delete					
No						
Streen erase						
Std.						
Style Teletype ASCII - ASCII - ASCII ASCII ASCII ASCII ASCII ASCII Corporam function keys No - 10 opt. Cursor control keys 6 std 6 std. 6 std.						
Style Teletype ASCII - ASCII - ASCII ASCII ASCII ASCII ASCII ASCII Cursor control keys 6 std.	KEYBOARD PARAMETERS					
Character/code set		Teletype	No keyboard	No keyboard		Typewriter
Detachability No - - Opt. No Program function keys No - - 10 opt. 4 std. Cursor control keys 6 std. - 6 std. 6 std.				 		
Cursor control keys 6 std. – – 6 std. 6 std. 6	Detachability	No				
ourse. control to tall				-		
			-	-		
Table 1 and	Edit function keys	3 std.	I _	<u> </u>	7 std. Ont	
Numeric keypad No – Opt. No	питегіс кеурас	ואט] _	_	Opt.	110

Part 2:

Operator Features
Ancillary Features
Transmission Parameters

Transmission Features
Terminal Interface
Line Interface

VENDOR AND MODEL	Digi-Log TeleComputer II	Digi-Log Series 300	Digi-Log Series 400	Digi-Log Series 3300 Microterm	Digital Equipment Model VT-50
OPERATOR FEATURES					
Numeric keylock	No	No	No	No	No
Audible alarm Keylock	Opt. No	Opt. No	Opt. No	Opt. No	Std. No
Operator I.D. card reader	No	No	No	No	No
Light pen	No	No	No	No	No
ANCILLARY DEVICES					
Cassette tape drive Diskette drive (floppy disk)	RS-232 interface RS-232 interface	RS-232 interface RS-232 interface	RS-232 interface RS-232 interface	RS-232 interface RS-232 interface	No No
Serial printer	RS-232 interface	RS-232 interface	RS-232 interface	RS-232 Interface	Non-impact
Print speed & print positions, cps		-	-		_ Non-impact
Other devices	5-inch portable CRT	None	None	None	None
RANSMISSION PARAMETERS					
Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Technique	Asynchronous	Asynchronous	Async./sync.	Async./sync.	Asynchronous
Communications protocol	ASCII	ASCII	ASCII/BSC	ASCII/BSC	ASCII
Code	ASCII	ASCII	ASCII/EBCDIC	ASCII	ASCII
Unit code structure, bits/char.	10/11	10/11	8/10/11	8/10/11	10/11
Speed, bits/second Operator selectable speeds	75 to 9600	110 to 9600	50 to 9600	75 to 9600	75 to 9600
Format: character, line, or block	Char. only	_ Any	Any	Char./block	Char. only
RANSMISSION FEATURES					
Multipoint operation (pollable/addr.)	No	No	No	Opt.	No
Auto answer Auto call	No No	No No	No No	No No	No No
TERMINAL INTERFACE	RS-232C			_	
ENMINAL INTENFACE	RS-232C	RS-232C	RS-232C	RS-232C opt., 20/60 ma opt.	RS-232C
INE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	Yes
Integral modem	Opt.	No	No	Opt.	No
Integral acoustic coupler Vendor-supplied external modem	Opt. No	No No	No No	Opt. No	Opt. No
DIAGNOSTICS		140		No	100
Self diagnostics	No •	No	No	No	No
In line	No	No	No	No	No
On line	No	No	No	No	No
Off line	No	No	No	No	No
RICING (Price range shows cost of basic unit and unit with all options)					
Lease price including maintenance:					
Display station, 1 year lease, \$/mo.	_	_	_	_	_
Display station, 2 year lease, \$/mo.	-	-	-	_	_
Display station, 3 year lease, \$/mo.	-	-	-		-
Serial printer, 1 year lease, \$/mo. Serial printer, 2 year lease, \$/mo.	-		-		-
Serial printer, 2 year lease, \$/mo.	_	_		_	_
Controller, 1 year lease, \$/mo.	I-	_	 -	_	_
Controller, 2 year lease, \$/mo.	-	_	-		_
Controller, 3 year lease, \$/mo.	-	-	<u> </u> -	-	-
Purchase price: Display station, \$				2 100 5 000	1.050
Serial printer, \$				2,100-5,000	1,250
Controller, \$	1,295-1,720	790-1,100	1,995	_	60
Software, \$	-	-	-		-
Quantity discounts available	_	-	-	-	_
VAILABILITY Date of first production delivery	9/75	3/74	12/74	9/73	0/74
Display units installed to date	Over 300	3/74 Over 300	Over 400	1,000	9/74
Serviced by	Digi-Log	Digi-Log	Digi-Log	Digi-Log	DEC
No. of service locations	-	_ 5 5	- 33	-	-
COMMENTS	1	11	D		
COMMENTS	1	Hardwired con- troller, uses ex-	Portable con- troller; uses	A portable con- troller that uses	Provides local co
		troller, uses ex- ternal monitor	separate monitor	separate monitor	of displayed data via integral print
	1	without keyboard	and keyboard (in-	and keyboard (in-	, via integral print
			cluded in higher	cluded in higher	
	1		cost above	cost above)	
					1

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

DISPLAY ORGANIZATION Display positions, chars./display Display positions, chars./display Display arrangement, lines x chars./line Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Total display	VENDOR AND MODEL	Digital Equipment Model VT-52	Digital Equipment Model VT-61/t	Four-Phase Systems System IV/40	Four-Phase Systems System IV/70	Genesis One Model G770 "The Plug"
Memory range, bytes				V.	V.	
Ves		Microprocessor	Microprocessor			Microprocessor
No		Yes	Yes			No
Remote cluster arrangement No						
Max. no. of printers/controller		No	No			
Max. no. of devices/controller		_	-			
Any mix of screen sizes/controller Computer interface						
Computer Interface						
No				-	- Std.	
IBM 2370/3275 IBM 22670/3275 IBM 2268/2265 No			No	No	No	
ISM 2286/2285						0.1
Teletype 33/35						
No						
Section Sect						
PROGRAMMABILITY Programmable via: Ves Ve				IBM 2948/2915,	IBM 2948/2915,	
Programmable via: User-created programs User-defined programs User-defined programs User-defined programs User-defined programs User-defined programs User-defined firmware No				others	others	
User-defined firmware No No No Ves Ves Ves No Ves Ves Ves No Ves Ves No Ves Ves No No No No No No No N						
User-defined parameters		No	No	Yes	Yes	No
Vendor-supplied software					Yes	
No						
Software pricing						
Software pricing	Vendor-supplied software	No	No			No
1920						
Display positions, chars./display Display arrangement, line sx chars./line Display arrangement, line sx chars./line Display arrangement, line sx chars./line Display arrangement, line Sx x x x x x x x x x x x x x x x x x	Software pricing	No	No	Std.	Std.	Extra cost
Display arrangement, lines x chars, line Display arrangement, lines x chars, line Display arrangement, lines x chars, line St. x 4.3 8.7 x 4.3 8.7 x 4.3 1.28 x 10.25 1.	DISPLAY ORGANIZATION					
Display area, h x w, inches S	Display positions, chars./display	1920				
128						12 x 40, 24 x 8
Symbol formation 7 x 7 7 7 x 8 7 x 9 dot matrix 5 x 7 dot r SPLAY FEATURES Color						
DISPLAY FEATURES Color Reverse video Programmable brightness levels Character and/or field blinking CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking COMMAT CONTROL Protected format Format editing via keyboard Format editing via keyboard Format storage No Std. Std. Std. Std. Std. Std. Std. Std.						5 x 7 dot matri:
Color Reverse video Programmable brightness levels Character and/or field blinking Character arease Character arease Character repeat Character and/or field blinking Character and/or field b	·	, ,	,	,		
Reverse video Programmable brightness levels Character and/or field blinking Roll Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Cursor blinking CORMAT CONTROL Protected format Format editing via keyboard Format editing via keyboard Format storage Parital screen transmit Tabulation Character insert/delete No Std. Std. Std. Std. Std. Std. Std. Std.		No	No	No	No	No
Character and/or field blinking — No Both std. Both std. No Roll Paging — Up & down std. Multiple paging std. Multiple paging std. No CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Std. Std. Std. Std. Std. Std. Std. Std.					No	No
Roll Paging Dy & down std. Dy A, B, H, Rt. U, D, L, R, H, Rt. Std. Std. Std. Std. Std. Std. Std. St	Programmable brightness levels		No			
Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Order Std. Std. Std. Std. Std. Std. Std. Std.	Character and/or field blinking	-	No	Both std.	Both std.	No
Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Std.			Up & down std. —			
Cursor positioning; Up, Down, Left, Right, Home, Return Std.	CURSOR CONTROL					
Right, Home, Return Cursor blinking Std. St		U. D. L. R. H. Rt.	U. D. L. R. H. Rt.	U. D. L. R. H. Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, I
Std. Std.		0, 2, 2, 1, 1, 11	-, -, -,,,	_,_,_,		, , , , ,
FORMAT CONTROL Protected format Format creation via keyboard Format deliting via keyboard Format storage Format storage Partial screen transmit No Std. Std. Std. Std. Std. Std. Std. Std.						
FORMAT CONTROL Protected format Protected format Promat creation via keyboard Promat creation via keyboard Pormat editing via keyboard Pormat storage Partial screen transmit No Std. Std. Std. Std. Std. Std. Std. Std.	Addressable/readable cursor		Std.	Std.	Std.	Std.
Format creation via keyboard Format storage Format storage Format storage No Std. Std. Std. Std. Std. Std. Std. Std.	ORMAT CONTROL	J,				
Format editing via keyboard No						
Format storage Partial screen transmit No Std. Std. Std. Std. Std. Std. Std. Std.						
Partial screen transmit						
Std. Std.						
Character insert/delete No Std.						
Detachability Program function keys Program func						
No						
Std. Std.						
Screen erase Character repeat Std. Std. Std. Std. Std. Std. Std. Std						
Character repeat Std. Typewriter/ data entry data entry ASCII/EBCDIC ASCII/EBCDIC Std. Program function keys Std. Std. 12 std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. 12 std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. 12 std. Std.						
Style Typewriter ASCII ASCII/EBCDIC ASCII/EBCDIC ASCII/EBCDIC Std. Program function keys 3 std. 4 std. 12 std. 12 std. 12 std.						
Style Typewriter ASCII ASCII/EBCDIC ASCII/EBCDIC ASCII/EBCDIC Std. Program function keys 3 std. 4 std. 12 std. 12 std. 12 std.	CEYBOARD PARAMETERS			Typewriter/	Typewriter/	Typewriter/
Character/code set ASCII ASCII ASCII/EBCDIC ASCII/EBCDIC BECDIC Detachability No No Std Std. Program function keys 3 std. 4 std. 12 std. 12 std. 12 std. 12 opt., 3		Typewriter	Typewriter			data entry
Detachability No No Std Std. Program function keys 3 std. 4 std. 12 std. 12 std. 12 std. 12 std.						
Program function keys 3 std. 4 std. 12 std. 12 std. 12 std. 12 opt., 3			No	Std.	_	Std.
						12 opt., 3 std.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cursor control keys	4 std.	4 std.	6 std.	6 std.	9 std.
Edit function keys 12 reassignable 12 reassignable 4 std. 4 std. 5 std. Numeric keypad Std. Std. Std. Opt.						
Numeric keypad Std. Std. Std. Opt.	мителс кеурад	3 td.	ota.	J 3 (u.	Jiu.	Jpt.
	!					

Part 2:

Operator Features Ancillary Features

Transmission Features Terminal Interface Transmission Parameters Line Interface

VENDOR AND MODEL	Digital Equipment Model VT-52	Digital Equipment Model VT-61/t	Four-Phase Systems System IV/40	Four-Phase Systems System IV/70	Genesis One Model G77C "The Plug"
OPERATOR FEATURES		<u> </u>	<u> </u>		
Numeric keylock	No	No	Std.	Std.	Opt.
Audible alarm Kevlock	Std.	Std. Std.	Opt. No	Opt. No	Opt. Opt.
Operator I.D. card reader	No	No	No	No	Opt.
Light pen	-	-	No	No	Opt.
ANCILLARY DEVICES					
Cassette tape drive Diskette drive (floppy disk)	No No	No No	No Single	No Single	No No
Serial printer	Non-impact	Non-impact	Impact	Impact	Impact
Print speed & print positions, cps	-	- '	i – '		88, 120, 165
Other devices	No	No	Disk & tape drives, card reader	Disk & tape drives, card reader	-
TRANSMISSION PARAMETERS		1			
Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	See Comments
Technique Communications protocol	Asynchronous No	Asynchronous No	Async./sync. BSC, SDLC	Async./sync. BSC, SDLC	_
Code	ASCII	ASCII	ASCII/EBCDIC	ASCII/EBCDIC	_
Unit code structure, bits/char.	10/11	10/11	Variable	Variable	_
Speed, bits/second Operator selectable speeds	75 to 9600 9 std.	75 to 9600 10 std.	1200 to 9600 Multiple std.	1200 to 9600 Multiple std.	_
Format: character, line, or block	Char. only	Char./block	Char./block	Char./block	_
• •	,				
TRANSMISSION FEATURES Multipoint operation (pollable/addr.)	No	No	Std.	Std.	_
Auto answer	No	No	Std.	Std.	_
Auto call	No	No	Opt.	Opt.	_
TERMINAL INTERFACE	RS 232C, 20 ma	RS 232C, 20 ma	RS-232 B/C	RS-232 B/C	_
LINE INTERFACE External modem required	No	Opt.	Yes	Yes	_
Integral modem	No	Opt.	No	No	
Integral acoustic coupler	No	No	No	No	-
Vendor-supplied external modem	No	No	No	No	_
DIAGNOSTICS			V-	V	.
Self diagnostics In line	No No	Yes Yes	Yes Yes	Yes Yes	No No
On line	No	Yes	Yes	Yes	Yes
Off line	No	Yes	Yes	Yes	Yes
PRICING (Price range shows cost of basic unit and unit with all options)					
Lease price including maintenance:					
Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo.	-		47	47	_ 113
Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo.	_	_	45	45	113
Serial printer, 1 year lease, \$/mo.	_	_	90	90	_
Serial printer, 2 year lease, \$/mo.	_	-	90	_ 90	_
Serial printer, 3 year lease, \$/mo. Controller, 1 year lease, \$/mo.	_	_	295	370	_
Controller, 2 year lease, \$/mo.		-	l —	_	_
Controller, 3 year lease, \$/mo. Purchase price:		-	270	348	-
Display station, \$	1,995	2,950	1,915	1,915	3,800
Serial printer, \$	_	1 _	3,500	3,500	_
Controller, \$ Software, \$	_	=	13,865 No charge	16,000 No charge	_
Software, \$ Quantity discounts available	Yes	_ Yes	Yes	Yes	_
AVAILABILITY	,				
Date of production delivery	12/75	3/76	7/73	2/71	1/75
Display units installed to date	_ DEC	_ DEC	Over 20,000	Over 20,000	2500 Sorbus
Serviced by No. of service locations	DEC -	DEC -	Four-Phase	Four-Phase 56	Sorbus -
COMMENTS					Replaces IBM 3277-2 Display station; plugs into IBM 3271-2 (re- mote) or 3272-2 (local) Control
					Units

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

ERMINAL DESCRIPTION Processor control Memory range, bytes Stand-alone unit Local cluster arrangement Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer interface	No - Yes No	No _			
Memory range, bytes Stand-alone unit Local cluster arrangement Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller	– Yes No	No _			
Stand-alone unit Local cluster arrangement Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller	No	1	No	No	Microprocessor
Local cluster arrangement Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller	No	No	Yes	No	No
Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller		Yes	No	Yes	IS/7802
Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller	No	Yes	No	Yes	IS/7801, IS/7801
Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller	_	8 or 16	[20	24	26 or 5 (IS/7801)
Max. no. of devices/controller Any mix of screen sizes/controller	_		L	12	26 or 5 (IS/7801)
Any mix of screen sizes/controller	_	8 or 16	L	36	26 or 5 (IS/7801)
	I	Std.	L	Yes	Yes
computer interrace	No	Minicomputer	No	Yes	Yes
Portable case	Yes, 25 lbs.	No	No	No	No
OMPATIBILITY					
BM 3270/3275	No	Opt.	No	No	Std.
BM 2260/2265	No	Opt.	Std.	Std.	No
Feletype 33/35	No	Std.	No	No	No
Teletype 40	No	No	No	No	No
Other	IBM 2701, 2741	No	No	No	No
ROGRAMMABILITY Programmable via:					
User-created programs	No	No	No	No	No
User-defined parameters	No	No	No	No	No
Vendor-defined firmware	No	No	No	No	No
User-defined firmware	No	No —	No	No	No
/endor-supplied software	_			_	_
oftware pricing	_	-	-	-	
ISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols	Variable -	256 to 1920 8/32 to 24/80 Variable 64; 96	240/480/960/1920 6/12×40; 12/24×80 7.5 × 9.5 64	6/12×40; 12/24×80 7.5 × 9.5 64	240/480/960/192 6/12×40; 12/24×8 7.5 × 9.5 128
Symbol formation	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix
ISPLAY FEATURES	i	İ	!		
Color	No	No	No	No	No
Reverse video	No	Opt.	No	No	Std.
Programmable brightness levels	No	No	No	No	2 std.
Character and/or field blinking	No	Char. only	Std.	Std.	Field std.
Roll Paging	Up std. No	No No	No No	No No	No No
URSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return	L, R, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H	U, D, L, R, H	U, D, L, R, H, Rt
Cursor blinking	Opt.	No	No	No	Std.
Addressable/readable cursor	Addressable line	Addressable only	Std. addressable	Std. addressable	Std.
ORMAT CONTROL			only	only	
Protected format	No	No	Std.	Std.	Std.
ormat creation via keyboard	No	No	Std.	Std.	Std.
ormat editing via keyboard	No	No	Std.	Std.	Std.
ormat storage	_	_	Std.	Std.	Std.
Partial screen transmit	No	No	Std.	Std.	No
Fabulation	No	No	Std.	Std.	Std.
DIT FUNCTIONS					
Character insert/delete	No	No	Std.	Std.	Std.
_ine insert/delete	No	No	No	No	No
Character erase	No	No	Std.	Std.	Std.
_ine erase	No	Yes	Std.	Std.	Std.
Screen erase	Yes	Yes	Std.	Std.	Std.
Character repeat	No	No	No	No	Std.
EVECARD BARAMETERS			Tunguistan,	Tunganitani	Tuno mito da da da da da da da da da da da da da
EYBOARD PARAMETERS	Typewriter	lany	Typewriter/ data entry	Typewriter/ data entry	Typewriter/data
Style Character/code set	APL	Any ASCII	ASCII	ASCII	entry/console ASCII/EBCDIC
Detachability	Std.	Std.	Std.	Std.	Std.
Program function keys	No	Any	No	No	12 std.
Cursor control keys	3 std.	6 std.	5 std.	5 std.	6 std.
	No	Any	5 std.	5 std.	6 std.
Edit function kevs					
Edit function keys Numeric keypad	No	Opt.	No	No	Opt.

Part 2:

Operator Features
Ancillary Features

Transmission Parameters

Transmission Features Terminal Interface Line Interface

VENDOR AND MODEL	Goodwood Data Systems GDS-100	Goodwood Data Systems GDS-300	GTE Information Systems IS/7100	GTE Information Systems IS/7700 & IS/7701	GTE Information Systems IS/7801/A & IS/7802
OPERATOR FEATURES					
Numeric keylock	No	No	No	No	No
Audible alarm Keylock	No No	No No	No No	No No	Std. Opt.
Operator I.D. card reader	No	No	No	No	No
Light pen	No	Opt.	No	No	Opt.
ANCILLARY DEVICES			<u> </u>		
Cassette tape drive Diskette drive (floppy disk)	No No	No No	No No	No No	No No
Serial printer	No	No	Impact	Impact	Impact
Print speed & print positions, cps Other devices	No No	No No	No	_ No	_ No
				,,,	,,,,
TRANSMISSION PARAMETERS					
Mode Technique	Full-duplex Asynchronous	Full-duplex Asynchronous	Half-duplex Asynchronous	Half-duplex Asynchronous	Half-duplex Synchronous
Communications protocol	IBM 2741	ASCII	ASCII	ASCII	BSC
Code	IBM Corresp.	ASCII	ASCII	ASCII	ASCII/EBCDIC
Unit code structure, bits/char.	10	11	10	10	8
Speed, bits/second	134.5	1200 to 9600	1200 to 9600	1200 to 9600	1200 to 9600
Operator selectable speeds Format: character, line, or block	No Char. only	No No	No Block only	No Block only	No Block only
TRANSMISSION FEATURES					
Multipoint operation (pollable/addr.)	No	No	Std.	Std.	Std.
Auto answer Auto call	No No	No No	No No	No No	No No
TERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C
LINE INTERFACE External modem required Integral modem Integral acoustic coupler	Yes No Std.	Yes No No	Yes No No	Yes No No	Yes No No
Vendor-supplied external modem	Opt.	Yes	No	No	No
DIAGNOSTICS					
Self diagnostics	No	No	No	No	No
In line	No	No	No	No	No
On line Off line	No Yes	No Yes	IBM No	IBM No	IBM No
PRICING (Price range shows cost of basic unit and unit with all options) Lease price including maintenance: Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo. Serial printer, 1 year lease, \$/mo. Serial printer, 2 year lease, \$/mo.	- - - - - -	Contact vendor	126-162 	74 	120
Serial printer, 3 year lease, \$/mo.				_	-
Controller, 1 year lease, \$/mo.	-	-	-	244-594	200-225
Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo.	_	_	_	_	_
Purchase price: Display station, \$	1,800-2,200	_	4,680-4,980	1,715	3,136
Serial printer, \$ Controller, \$	_	_		_ 10,620-23,850	 5,696-6,496
Software, \$	_	_		-	_
Quantity discounts available	No	_	_	_	_
AVAILABILITY Date of first production delivery	4/73	7/74	6/72	4/72	2/75, 4/75 (01A)
Display units installed to date	Over 100		1,500	5,000	3,000
Serviced by No. of service locations	Goodwood 	Goodwood -	GTEIS	GTEIS	GTEIS
COMMENTS	Portable controller with keyboard uses video monitor; replaces the IBM 2741		Supports one printer		Cluster limit for IS/7801 A is 5; prices for clusters over 8 for 7801/0 are substantially higher; contact vendor for 7801 / pricing

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

TERMINAL DESCRIPTION Processor control Momory range, bytes Stand-alone unit Local cluster arrangement Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of displays/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer interface Portable case COMPATIBILITY IBM 3270/3275 IBM 3270/3275 IBM 2260/2265 Teletype 33/35 Teletype 33/35 Teletype 33/35 Teletype 40 Other PROGRAMMABILITY Programmable via: User-created programs User-defined parameters Vendor-defined firmware User-defined firmware User-defined firmware User-defined firmware Vendor-supplied software DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./nine Display positions, chars./display Display arrangement, lines x chars./nine Display positions, chars./ splay Display positions, chars. display Display arrangement, lines x chars. dine DISPLAY FEATURES Color Reverse video Programmable brightness levels Character and/or field blinking Roll Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL FORMAT C	Yes Yes Yes No No
Memory range, bytes Stand-alone unit Local cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of printers/controller Any mix of screen sizes/controller Computer interface Portable case COMPATIBILITY IBM 3270/3275 IBM 3270/3275 IBM 2260/2265 No No No No No No No No No No No No No	Yes
Stand-alone unit Local cluster arrangement No No No No No No No No No No No No No	No
Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer interface Portable case COMPATIBILITY IBM 3270/3275 IBM 2260/2265 IBM 2260/2265 IBM 2260/2265 IBM 2260/2265 IBM 200/2265 IBM 200/2266 IBM 200/2266 IBM 200/2266 IBM 200/2266 IBM 200/22	No
Max. no. of displays/controller Max. no. of displays/controller Max. no. of displays/controller Max. no. of displays/controller Any mix of screen sizes/controller Computer interface Portable case COMPATIBILITY IBM 3270/3275 IBM 2260/2265 Teletype 33/35 Teletype 40 Other PROGRAMMABILITY Programmable via: User-created programs User-defined firmware Vendor-defined firmware Vendor-supplied software No No No No No No No No No No No No No	
Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer interface Portable case COMPATIBILITY IBM 3270/3275 IBM 2260/2265 IBM 2260/2265 IBM 2260/2265 IBM 260/2265 IBM 260/2266 IBM 260/2266 IBM 260/2266 IBM 260/2266 IBM 260/2266 IBM 260/2266 IBM 260/2266 IBM 260/2266 IBM 260/2266 IBM 260/2266 IBM 260/226	-
Max. no. of devices/controller Any mix of screen sizes/controller Computer interface Portable case COMPATIBILITY IBM 3270/3275 IBM 2260/2265 Teletype 33/35 Teletype 40 Other PROGRAMMABILITY Programmable via: User-created programs User-defined firmware Vendor-defined firmware Vendor-supplied software Vendor-supplied software DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display arrangement Display arrangement Display arrangement D	-
Computer interface Portable case COMPATIBILITY IBM 3270/3275 IBM 2260/2265 Teletype 33/35 Teletype 40 Other Programmable via: User-created programs User-defined firmware Vendor-defined firmware Vendor-supplied software Vendor-supplied software No No No No No No No No No No No No No	No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No No
Portable case COMPATIBILITY IBM 3270/3275 IBM 2260/2265 Teletype 33/35 Teletype 40 Other PROGRAMMABILITY Programmable via: User-created programs User-defined firmware User-defined firmware User-defined firmware User-defined firmware Vendor-supplied software Programmable via: User-created programs User-defined firmware User-defined firmware User-defined firmware User-defined firmware User-defined firmware Vendor-supplied software Programmable software DISPLAY ORGANIZATION Display arrangement, lines x chars./line Display arrangement Display arrangement, lines x chars./line Display arrangement, lines x chars./line Display arrangement, lines x chars./line Display arrangement Display arrangement, lines x chars./line Display arrangement Display arrangement Display arrangement Display arrangement Display arrangement Display arrangement Display arrangement Display arrangement Display arr	No No No No No No No No No No No No No No No No No No No No No Yes Yes No No No No
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IBM 3270/3275 IBM 2260/2265 Teletype 33/35 Teletype 40 Other PROGRAMMABILITY Programmable via: User-created programs User-defined firmware Vendor-defined firmware Vendor-supplied software User-defined firmware Vendor-supplied software No No No No No No No No No No No No No	No No No No No No No No No No No No No N
Teletype 33/35 Teletype 40 Other PROGRAMMABILITY Programmable via: User-created programs User-defined parameters Vendor-defined firmware Vendor-supplied software User-defined firmware Vendor-supplied software No No No No No No No No No No No No No	No No No No No No No No No No No No No N
Teletype 40 Other PROGRAMMABILITY Programmable via: User-created programs User-defined parameters Vendor-defined firmware User-defined firmware User-defined firmware User-defined firmware Vendor-supplied software No No No No No No No No No No No No No	No Customer specified No No No No No No No No No Yes Yes No No No No No No No No No No Yes No No No No No No No No No No No No No
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PROGRAMMABILITY Programmable via: User-created programs User-defined parameters Vendor-defined firmware User-defined firmware Vendor-supplied software No No No No No No No No No No No No No	No No No No No No Yes Yes No Yes No No No No No
Programmable via: User-created programs User-defined parameters Vendor-defined firmware User-defined firmware Vendor-supplied software No No No No No No No No No No No No No	No Yes Yes No No No No No No No No No
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Software pricing DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation DISPLAY FEATURES Color Reverse video Programmable brightness levels Character and/or field blinking Roll Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format storage DISPLAY FEATURES Color No No No No No No No No No Vo Std. No No Std. Std. No Std. Std. Std. Std. Std. Std. Std. Std.	
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation DISPLAY FEATURES Color Reverse video Programmable brightness levels Character and/or field blinking Roll Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format storage D960; 1920 (1200) 12/24 x 80 (1200) 4.6 x 9.2 6.4 std.; 96 opt. 5 x 7 dot matrix No No No No No No No No No No No No No	
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation DISPLAY FEATURES Color Reverse video Programmable brightness levels Character and/or field blinking Roll Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format storage D960; 1920 (1200) 12/24 x 80 (1200) 4.6 x 9.2 6.4 std.; 96 opt. 5 x 7 dot matrix No No No No No No No No No No No No No	I I I
Display positions, chars./display Display arrangement, lines x chars./line Display arrangement, lines x chars./line Display arran, h x w, inches Total displayable symbols Symbol formation DISPLAY FEATURES Color Reverse video Programmable brightness levels Character and/or field blinking Roll Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format storage D90; 1920 (1200) 12/24 x 80 (1200) 12/24 x 92 16 std.; 96 opt. 5 x 7 dot matrix 10/24 x 92 10/24 x	
COISPLAY FEATURES Color Reverse video Programmable brightness levels Character and/or field blinking Roll Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage No No No No No No No No No No No No No	6.0 x 8.5 pt. 64 std.; 96 opt. 64 std.; 96 opt. 17-inch diag. 128; 256
Color Reverse video Programmable brightness levels Character and/or field blinking Roll Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format storage No No No No No Vestd. Up std. Ves D, L, R, H, Rt. No Opt. No Std. address only Std. No Std. No Std. Std. Std. Std. Std. Std. Std. Std.	attix 5 x / dot matrix / x 9 dot matrix / x 9 dot matrix
Reverse video Programmable brightness levels Character and/or field blinking Roll Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage No No No Up std. No Up std. Ves D, L, R, H, Rt. No Opt. Std. address only Std. No Std. No Std. Std. No Std. Std. Std. Std. Std. Std.	
Programmable brightness levels Character and/or field blinking Roll Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format storage No 2 std. Field opt. Up std. Yes U, D, L, R, H, Rt. No Opt. No Std. address only Std. No Std. No Std. Std. No Std. Std. Std.	No No No Std.
Character and/or field blinking Roll Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Riight, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format storage No Field opt. Up std. Ves D, L, R, H, Rt. No Opt. No Std. address only Std. No Std. No Std. Std. Std. Std. Std. Std. Std. Std.	No Std. Std. Std. 2 std. 2 std. 2 std. 2 std. 2 std. 2 std. 2 std. 2 std. 2 std. 9 std.
Roll Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Up std. V, D, L, R, H, Rt. No Opt. Std. address only No Std. No Std. No Std. Std. No Std. Std.	Field opt. Field opt. No
Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage No Yes Value No No Opt. No Std. address only Std. No Std. No Std. No Std. Std. No Std. Std. Std. Std. Std. Std. Std. Std	
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Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Cursor positioning; Up, Down, Left, D, L, R, H, Rt. No No Opt. Std. address only Std. No Std. No Std. Std. Std. Std.	Yes No No
Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage No Opt. Std. address only Std. No Std. No Std. Std. Std.	H, Rt. U, D, L, R, H, Rt. U, D, L, R, H, Rt. U, D, L, R, H, R
Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage No Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. (no cost) Std.
FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage No Std. Std. Std. Std. Std.	1 7 7 7 1 1 2 2
FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage No Std. Std. Std. Std.	only
Format creation via keyboard No Std. Format editing via keyboard No Std. Format storage No Std.	
Format editing via keyboard No Std. Format storage No Std.	Std. Std. No
Format storage No Std.	Std. Opt. No No No
	Std. Std. No
1 ar riar acreati i ariarii i - 1 ar riar ariar	
Tabulation No Std.	Std. Opt. Std.
EDIT FUNCTIONS	Std. Opt. Std. Opt. Opt.
Character insert/delete No Std.	
Line insert/delete No Std.	Std. Opt. Opt.
Character erase No; std. (1200) Std.	Std. Opt. Opt. Std. Opt. Std. Std. Std. Std.
Line erase No No	Std. Opt. Opt. Std. Opt. Std. Std. Opt. Std. Std. Std. Std.
Screen erase Std. Std. Character repeat No Std.	Std. Opt. Opt. Std. Opt. Std. Std. Opt. Std. Std. Std. Std. No Std. Std.
	Std. Opt. Opt. Std. Opt. Std. Std. Opt. Std. Std. Std. Std.
KEYBOARD PARAMETERS	Std. Opt. Opt. Std. Opt. Std. Std. Opt. Std. Std. Std. Std. No Std. Std. Std. Std. Std. Std. Std. Std.
Style Teletype Character/code set ASCII Teletype	Std. Opt. Opt. Std. Opt. Std. Std. Opt. Std. Std. Std. Std. No Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std.
Detachability No Std.	Std. Opt. Opt. Std. Opt. Std. Std. Opt. Std. Std. Std. Std. Teletype Typewriter Typewriter
Program function keys No No	Std. Opt. Opt. Std. Opt. Std. Std. Opt. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Teletype Typewriter ASCII Typewriter TTS Std. Std. No
Cursor control keys 4 std. 6 std.	Std. Opt. Opt. Std. Opt. Std. Std. Std. Std. Teletype ASCII ASCII TTS Txs. Std. No No No 8 opt. No
Edit function keys No 7 std.	Std. Opt. Opt. Std. Opt. Std. Std. Opt. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Teletype ASCII ASCII ASCII Std. TTS No 8 opt. No 6 std. 6 std. 6 std.
Numeric keypad No Std.	Std. Opt. Opt. Std. Opt. Std. Std. Std. Std. Teletype ASCII ASCII TTS Txs. Std. No No No 8 opt. No

${\bf Alphanumeric\ Display\ Terminals-Equipment\ Specifications}$

Part 2:

Operator Features Ancillary Features

Transmission Features Terminal Interface Transmission Parameters Line Interface

VENDOR AND MODEL	Hazeltine 1000 & 1200	Hazeltine 2000	Hazeltine 3000	Hazeltine Modular One	Hendrix 5200/5200 B
PERATOR FEATURES					
Numeric keylock	No	No	No	No	No
Audible alarm	Std.	Std.	Std.	Std.	No
Keylock	No No	No No	No No	Opt. No	No No
Operator I.D. card reader Light pen	No	No	No	No	No
NCILLARY DEVICES					
Cassette tape drive	No	Dual	Dual	No	No No
Diskette drive (floppy disk) Serial printer	No Non-impact (1200)	No Impact/non-impact	No Impact/non-impact	No No	No
Print speed & print positions, cps	30 @ 80	30 @ 80; 120 @ 120			_
Other devices	No		Remote monitors	No	Paper tape reade
RANSMISSION PARAMETERS					
Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Technique	Asynchronous	Asynchronous	Async.; sync. opt.	Async.; sync. opt.	Asynchronous
Communications protocol	ASCII	ASCII	User defined	User defined	TTS/ASCII
Code	ASCII	ASCII	ASCII	ASCII	ASCII
Unit code structure, bits/char. Speed, bits/second	10/11 110 to 9600	10/11 110 to 9600	10/11 110 to 9600	10/11 110 to 9600	10/11 110 to 9600
Operator selectable speeds	2 std.	5 std.	5 std.	No	No
Format: character, line, or block	Char. only	Char./block	Block only	Char.; block opt.	Char. only
RANSMISSION FEATURES	 	No	Std.	Opt.	No
Multipoint operation (pollable/addr.) Auto answer	No No	No No	Sta. No	No	No
Auto call	No	No	No	No	No
FERMINAL INTERFACE	RS-232 B/C	RS-232 B/C	RS-232 B/C	RS-232 B/C	RS-232C opt.
INE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	Yes
Integral modern	No	No	No	No	No
Integral acoustic coupler	No	No	No	No	No
Vendor-supplied external modem	Opt.	Opt.	Opt.	Opt.	No
DIAGNOSTICS Self diagnostics	No	No	No	No	No
In line	No	No	No	No	No
On line	No	No	No	No	No
Off line	Yes	Yes	Yes	Yes	No
PRICING (Price range shows cost of basic unit and unit with all options)					
Lease price including maintenance:					
Display station, 1 year lease, \$/mo.	49; 65 (1200)	98	125		-
Display station, 2 year lease, \$/mo.	[-	-	110	-	_
Display station, 3 year lease, \$/mo.	_ 83	- 83; 150 (impact)	- 83; 150 (impact)	_	_
Serial printer, 1 year lease, \$/mo. Serial printer, 2 year lease, \$/mo.	-	- (mpact)	- (Impact)	_	_
Serial printer, 3 year lease, \$/mo.	l_	_	-		
Controller, 1 year lease, \$/mo.	_		50-75		
Controller, 2 year lease, \$/mo.	-	-	-	-	_
Controller, 3 year lease, \$/mo.	1 405:	_	-	_	_
Purchase price: Display station, \$	1,495; 1,590 (1200)	2,995	3.900	1,420	9,800-12,800
Serial printer, \$	2,350 (1200 only)	2,350;4,350(imp't)			
Controller, \$	[-	-	-	_	-
Software, \$	15	-	-		_
Quantity discounts available	Yes	Yes	Yes	Yes	_
AVAILABILITY Date of first production delivery	6/73; 10/74 (1200)	10/70	3/74	2/76	1970
Display units installed to date	2,700; 2,000(1200)	23,000	600	_	_
Serviced by No. of service locations	Syntonic/Hazeltine 53	Syntonic/Hazeltine 53		Syntonic/Hazeltine 53	Hendrix —
COMMENTS	Options include answerback and 202C or current loop interface	Options include answerback and 202C or current loop interface		Available for OEM purchase only; extensive choice of no-charge and low-cost options	Designed for tex editing
	1				

Part 1:

Terminal Description Compatibility Programmability

Display Organization Display Features Cursor Control

VENDOR AND MODEL	Hendrix 6000 Series	Hewlett-Packard 2640 A/C & 2644A	Honeywell VIP 7700	Honeywell VIP 7760	IBM 3275 Information Display Syste
TERMINAL DESCRIPTION					
Processor control	No	Microprocessor	No	Microprocessor	No
Memory range, bytes	- -	See Comments		24K to 64K	Yes
Stand-alone unit	No	Yes	Yes	No	
Local cluster arrangement	No Yes	No No	Yes Yes	Yes Yes	No No
Remote cluster arrangement Max. no. of displays/controller	Yes 8	1	10	8-32	
Max. no. of printers/controller	1	_	10	4-16	_
Max. no. of devices/controller	8		10	8-32	1_
Any mix of screen sizes/controller	No	1	1.0	Standard	
Computer interface	No	No	Honeywell	Honeywell	No
Portable case	No	No	No	No	No
COMPATIBILITY		}			
IBM 3270/3275	No	No	No	No	Yes
IBM 2260/2265	No	No	No	No	No
Teletype 33/35	Optional	Standard	No	No	No
Teletype 40	No	No	No	No	No
Other	No	No	Honeywell	Honeywell	No
PROGRAMMABILITY Programmable via:					
User-created programs	No	No	No	No	No
User-defined parameters	No	No	No	No	No
Vendor-defined firmware	No	Yes	No	Yes	No
User-defined firmware	No	No	No	No	No
Vendor-supplied software	No	No	No	Yes	No
Software pricing	_	_	-	_	_
NODLAY ODCANIZATION					ļ
DISPLAY ORGANIZATION	4000	1000	000/4000	000/4000	400/4000
Display positions, chars./display	1296	1920	960/1920	960/1920	480/1920 12/24 × 80
Display arrangement, lines x chars./line Display area, h x w, inches		24 x 80 5 x 10	12/24 x 80 5.5 x 8.5	12/24 x 80 6 x 9	12/24 x 80 14-inch diag.
Total displayable symbols	12-inch diag. 256	64; up to 512 opt.	63; 96 opt.	96	64
Symbol formation	7 x 9 dot matrix	7 x 9 dot matrix	5 x 7 dot matrix	7 x 9 dot matrix	7 x 9 dot matrix
DISPLAY FEATURES					
Color	No	No	No	No	No
Reverse video	Standard	Standard	No	No	No
Programmable brightness levels	2 std. plus 2 opt.	1 opt.	No	No	2 std.
Character and/or field blinking	Standard	Optional	Standard	Standard	No
Roll	Standard	Up & down std.	No	No	No
Paging	No	Variable	No	Standard	No
CURSOR CONTROL			11 D I D II D+	U D I B II B	
Cursor positioning; Up, Down, Left, Right, Home, Return	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R
Cursor blinking	Standard	Standard	Standard	Standard	No
	i Stailuai u			Standard	Std.; addressable
Addressable/readable cursor	Standard	Standard	Std.; addressable		
Addressable/readable cursor		Standard	only		only
Addressable/readable cursor ORMAT CONTROL	Standard		only		1
Addressable/readable cursor ORMAT CONTROL Protected format	Standard Standard	Standard	only Standard	Standard	Standard
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard	Standard Standard Standard	Standard Standard	only Standard Standard	Standard No	Standard Standard
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard	Standard Standard Standard Standard	Standard Standard Standard	only Standard Standard Standard	Standard No Standard	Standard Standard Standard
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage	Standard Standard Standard Standard Standard	Standard Standard Standard Variable	only Standard Standard Standard Standard	Standard No Standard 95	Standard Standard Standard Standard Standard
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit	Standard Standard Standard Standard	Standard Standard Standard	only Standard Standard Standard	Standard No Standard	Standard Standard Standard
Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation	Standard Standard Standard Standard Standard Standard	Standard Standard Standard Variable Standard	only Standard Standard Standard Standard Standard Standard	Standard No Standard 95 Standard	Standard Standard Standard Standard Standard Standard
Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert/delete	Standard Standard Standard Standard Standard Standard	Standard Standard Standard Variable Standard	only Standard Standard Standard Standard Standard Standard	Standard No Standard 95 Standard	Standard Standard Standard Standard Standard Standard
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert/delete Line insert/delete	Standard Standard Standard Standard Standard Optional Standard Standard	Standard Standard Standard Variable Standard Standard	only Standard Standard Standard Standard Standard Standard Standard	Standard No Standard 95 Standard Standard	Standard Standard Standard Standard Standard Standard
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert/delete Line insert/delete Character erase	Standard Standard Standard Standard Standard Optional Standard Standard Standard	Standard Standard Standard Variable Standard Standard Standard Standard Standard	only Standard Standard Standard Standard Standard Standard Standard Standard	Standard No Standard 95 Standard Standard Standard Standard Standard	Standard Standard Standard Standard Standard Standard Standard No Standard
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase	Standard Standard Standard Standard Standard Optional Standard Standard Standard Standard Standard	Standard Standard Standard Variable Standard Standard Standard Standard Standard Standard	only Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard No Standard 95 Standard Standard Standard Standard Standard Standard	Standard Standard Standard Standard Standard Standard Standard No Standard Standard
Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Screen erase	Standard Standard Standard Standard Standard Optional Standard Standard Standard Standard Standard	Standard Standard Standard Variable Standard Standard Standard Standard Standard Standard Standard Standard Standard	only Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard No Standard 95 Standard Standard Standard Standard Standard Standard Standard	Standard Standard Standard Standard Standard Standard Standard No Standard Standard Standard
Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Screen erase Character repeat	Standard Standard Standard Standard Standard Optional Standard Standard Standard Standard Standard	Standard Standard Standard Variable Standard Standard Standard Standard Standard Standard	only Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard No Standard 95 Standard Standard Standard Standard Standard Standard	Standard Standard Standard Standard Standard Standard Standard Standard No Standard Standard
Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Screen erase Character repeat CEYBOARD PARAMETERS	Standard Standard Standard Standard Standard Optional Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard Standard Standard Variable Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	only Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard No Standard 95 Standard Standard Standard Standard Standard Standard Standard Standard	Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard
Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Screen erase Character repeat KEYBOARD PARAMETERS Style	Standard Standard Standard Standard Standard Optional Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard Standard Standard Variable Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	only Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard No Standard 95 Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard Standard Standard Standard Standard Standard No Standard Standard Standard Standard Standard Standard
Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Screen erase Character repeat KEYBOARD PARAMETERS Style Character/code set	Standard Standard Standard Standard Standard Optional Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard Standard Standard Variable Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	only Standard	Standard No Standard 95 Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Typewriter ASCII	Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard ASCII/EBCDIC
Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert/delete Line insert/delete Line erase Line erase Screen erase Character repeat CEYBOARD PARAMETERS Style Character/code set Detachability	Standard Standard Standard Standard Standard Optional Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard Standard Standard Variable Standard Standard Standard Standard Standard Standard Standard Standard Standard Typewriter ASCII	only Standard	Standard No Standard 95 Standard Standard Standard Standard Standard Standard Standard Standard Typewriter ASCII Optional	Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard
Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Screen erase Character repeat EYBOARD PARAMETERS Style Character/code set Detachability Program function keys	Standard Standard Standard Standard Standard Standard Optional Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard Standard Standard Variable Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	only Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard No Standard 95 Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Typewriter ASCII	Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Ostandard
Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert/delete Line insert/delete Line erase Line erase Screen erase Character repeat CEYBOARD PARAMETERS Style Character/code set Detachability	Standard Standard Standard Standard Standard Optional Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	Standard Standard Standard Variable Standard Standard Standard Standard Standard Standard Standard Standard Standard Typewriter ASCII	only Standard	Standard No Standard 95 Standard Standard Standard Standard Standard Standard Standard Standard Typewriter ASCII Optional	Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard

Part 2:

Operator Features Ancillary Features Transmission Parameters Transmission Features Terminal Interface Line Interface

VENDOR AND MODEL	Hendrix 6000 Series	Hewlett-Packard 2640 A/C & 2644A	Honeywell VIP 7700	Honeywell VIP 7760	IBM 3275 Information Display System
OPERATOR FEATURES					
Numeric keylock	No	Standard	No	No	Optional
Audible alarm	Standard	Standard	No	No	Optional
Keylock	No	No	Optional	Optional	Optional
Operator I.D. card reader	No	No	Optional	No	Optional
Light pen	No	No	No	-	Optional
ANCILLARY DEVICES Cassette tape drive	No	Dual cart. (2644)	Dual	No	No
Diskette drive (floppy disk)	No	No	No	Yes	No
Serial printer	Optional	Impact/non-impact	Impact	Optional	IBM 3284-3
Print speed & print positions, cps Other devices	Paper tape reader.	- -	- NI-	120 @ 120	40 @ 120/132
Other devices	punch, 2.4 M-byte	No	No	No	No
TRANSMISSION PARAMETERS	disk				
Mode	Half-duplex	Half/full-duplex	Half-duplex	Half/full-duplex	Half-duplex
Technique	Asynchronous	Asynchronous	Synchronous	Synchronous	Synchronous
Communications protocol	ASCII	TTY	ASCII	VIP	BSC/SDLC
Code	ASCII	ASCII	Honeywell	ASCII	ASCII/EBCDIC
Unit code structure, bits/char.	10/11	10/11	8	8	8
Speed, bits/second Operator selectable speeds	110 to 9600 No	110 to 2400 5 standard	2000 to 4800	2400/4800	1200 to 7200
Format: character, line, or block	Char, only	Char./block	No Block only	No Block only	No Block only
TRANSMISSION FEATURES	Silan Siliy	Grian, Brook	Block om,	Brook om,	Brook Silly
Multipoint operation (pollable/addr.)	No	No	Standard	Standard	Standard
Auto answer	No	No	Standard	No	No
Auto call	No	No	No	No	No
TERMINAL INTERFACE	RS-232C opt.	RS-232C	RS-232C	RS-232C, CCITT V.24	RS-232C
LINE INTERFACE					
External modem required	Yes No	Yes	Yes	Yes	Yes No
Integral modem Integral acoustic coupler	No	No No	No No	No No	No No
Vendor-supplied external modem	No	No	No	No	Optional
DIAGNOSTICS					
Self diagnostics	No	Yes	No	Yes	No
In line	No	No	No	Yes	No
On line Off line	No No	Yes Yes	No No	Yes Yes	Yes No
PRICING (Price range shows cost of					
basic unit and unit with all options.) Lease price including maintenance:					
Display station, 1 year lease, \$/mo.	_	Full pay-out	157-285	51-84	150-360
Display station, 2 year lease, \$/mo.	l —	Lease available	-	-	_
Display station, 3 year lease, \$/mo.	_	_	135-242	46-76	-
Serial printer, 1 year lease, \$/mo.	-	-	-	152-182	145
Serial printer, 2 year lease, \$/mo. Serial printer, 3 year lease, \$/mo.	_	-		139-165	_
Controller, 1 year lease, \$/mo.	_	_	98	462	_
Controller, 2 year lease, \$/mo.	_	_		1-	
Controller, 3 year lease, \$/mo. Purchase price:	-	-	85 (5-yr.)	420	-
Display station, \$ Serial printer, \$	5,9 0 0	3,000-5,000 3,000	4,860-8,770	1,840-3,040 4,500-5,450	5,290-11,009 4,845
Controller, \$	32,300-196,000	-	3,025	16,800	-
Software, \$ Quantity discounts available	_	 Yes	<u> </u>	_	-
AVAILABILITY					
Date of first production delivery Display units installed to date	1972	1975 4000 (2640A)	10/73 Over 2,000	5/76	2nd qtr. 1972
Serviced by No. of service locations	Hendrix	Hewlett-Packard 162	Honeywell -	Honeywell 155	IBM -
COMMENTS	Designed for text editing and text publishing	2640 has 8K ROM; 1K RAM in A, 4K in C, exp. to 8K; 2644A also has 128-char. Cyrillic & cartridge tape unit. All models of- fer 64-char. math or line-drawing set			

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	IBM 3277 Information Display System	IBM 2260 Display Station	IBM 2265 Display Station	IBM 3790 Communication System	IBM 5937
TERMINAL DESCRIPTION					
Processor control	No	No	No	Yes 8K-48K	No
Memory range, bytes		No	Yes	No	Yes
Stand-alone unit	No Yes	Yes	No.	Yes	No
Local cluster arrangement Remote cluster arrangement	Yes	Yes	No	Yes	No
Max. no. of displays/controller	32	24	_	16	_
Max. no. of printers/controller	31	1	-	31	_
Max. no. of devices/controller	32	25	-	22	_
Any mix of screen sizes/controller	Yes	No Yes	– No	51 No	No
Computer interface Portable case	3272 only No	No	No	No	No
COMPATIBILITY					
IBM 3270/3275	Yes	No	No	No	Yes
IBM 2260/2265	No	Yes	Yes	No	No
Teletype 33/35	No	No	No	No	No
Teletype 40	No	No	No	No No	No No
Other	No	No	No	NO	140
ROGRAMMABILITY					
Programmable via:					
User-created programs	No	No	No	No	No
User-defined parameters	No	No	No	No No	No No
Vendor-defined firmware	No	No No	No No	No	No
User-defined firmware Vendor-supplied software	No No	No	No	No	No
Software pricing	_	-	_	_	_
DISPLAY ORGANIZATION				400/4000	240
Display positions, chars./display	480/1920	240/480/960	960 15 x 64; 12 x 80	480/1920 12 x 40; 24 x 80	6 × 40
Display arrangement, lines x chars./line	12 x 40; 24 x 80	6/12 x 40; 12 x 80 4 x 9	4.6 x 10.3	14-inch diag.	
Display area, h x w, inches Total displayable symbols	14-inch diag.	64	64	64	44
Symbol formation	7 x 9 dot matrix	5 x 7 dot matrix	Stroke	7 x 9 dot matrix	Gas panel
DISPLAY FEATURES					
Color	No	No	No	No	No
Reverse video	No	No	No	No 2 std.	Std.
Programmable brightness levels	2 std.	No No	No No	No	
Character and/or field blinking	No				C+d
Roll Paging	No No	No No	No No	No No	Std. No
CURSOR CONTROL Cursor positioning; Up, Down, Left,	U, D, L, R	U, D, L, R	U, D, L, R	U, D, L, R	U, D, L, R, H
Right, Home, Return		l i			No
Cursor blinking	No	No Ont addressed to	No Opt., addressable	No Std., addressable	No
Addressable/readable cursor	Std., addressable only	Opt., addressable line only	line only	only	140
FORMAT CONTROL	·	04.4	Std.	Std.	Std.
Protected format	Std.	Std. Std.	Std. Std.	Std.	
Format creation via keyboard Format editing via keyboard	Std. Std.	Std.	Std.	Std.	_
Format editing via keyboard	Std.	Std.	Std.	Std.	-
Partial screen transmit	Std.	Std.	Std.	Std.	No
Tabulation	Std.	Opt.	Opt.	Std.	
EDIT FUNCTIONS		NI-	No	Std.	No
Character insert/delete	Std.	No No	No No	Sta. No	No
Line insert/delete Character erase	No Std.	No No	No	Std.	Std.
Line erase	Std.	Opt.	Std.	Std.	Std.
Screen erase	Std.	Std.	Std.	Std.	Std.
Character repeat	Std.	No	No	Std.	No
CEYBOARD PARAMETERS		T	Tunquaritar	Typewriter	Block
Style	Several	Typewriter/num.	Typewriter ASCII	Typewriter ASCII/EBCDIC	ASCII/EBCD
Character/code set	ASCII/EBCDIC Std.	Std.	Std.	Std.	No
Detachability Program function keys	Std.	No	No.	Opt.	_
Cursor control keys	4 std.	4 std.	4 std.	4 std.	4 std.
Edit function keys	6 std.	1 std.; 1 opt.	2 std.	6 std.	Programmable
Numeric keypad	Std.	Opt.	No	Std.	Std.
					1

Part 2:

Operator Features
Ancillary Features
Transmission Parameters

Transmission Features Terminal Interface Line Interface

Opt. Opt. Opt. Opt. Opt. Opt. Opt. No No IBM 3284/3286 40/66 @ 120-132 IBM 3288 line printer 120-lpm @ 132 char./line Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200 No Block only	No No No No No No No No HBM 1053-4 14.8 @ 128 No Half-duplex Asynchronous ASCII	No No No No No No 1BM 1053-4 14.8 @ 128	Opt. Opt. Opt. Opt. Opt. Opt. No No No IBM 3793 — Disk, 4.2-26.9	No No No No No No
Opt. Opt. Opt. Opt. Opt. No No No IBM 3284/3286 40/66 @ 120-132 IBM 3288 line printer 120-lpm @ 132 char./line Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200 No	No No No No No IBM 1053-4 14.8 @ 128 No Half-duplex Asynchronous ASCII	No No No No No IBM 1053-4 14.8 @ 128	Opt Opt. Opt. Opt. No No IBM 3793	No No No No No
Opt. Opt. Opt. Opt. No No No IBM 3284/3286 40/66 @ 120-132 IBM 3288 line printer 120-lpm @ 132 char./line Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200 No	No No No No IBM 1053-4 14.8 @ 128 No Half-duplex Asynchronous ASCII	No No No No IBM 1053-4 14.8 @ 128	Opt. Opt. Opt. No No IBM 3793	No No No No No
Opt. Opt. Opt. No No No IBM 3284/3286 40/66 @ 120-132 IBM 3288 line printer 120-lpm @ 132 char./line Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200 No	No No No No IBM 1053-4 14.8 @ 128 No Half-duplex Asynchronous ASCII	No No No IBM 1053-4 14.8 @ 128	Opt. Opt. No No IBM 3793 — Disk, 4.2-26.9	No No No No
Opt. No No No No Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200 No	No No No IBM 1053-4 14.8 @ 128 No Half-duplex Asynchronous ASCII	No No No IBM 1053-4 14.8 @ 128 No	No No No IBM 3793 — Disk, 4.2-26.9	No No No
No No No No 1BM 3284/3286 40/66 @ 120-132 1BM 3288 line printer 120-lpm @ 132 char./line Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200	No IBM 1053-4 14.8 @ 128 No Half-duplex Asynchronous ASCII	No No IBM 1053-4 14.8 @ 128 No	No No IBM 3793 — Disk, 4.2-26.9	No No
No IBM 3284/3286 40/66 @ 120-132 IBM 3288 line printer 120-lpm @ 132 char./line Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200 No	No IBM 1053-4 14.8 @ 128 No Half-duplex Asynchronous ASCII	No IBM 1053-4 14.8 @ 128 No	No IBM 3793 — Disk, 4.2-26.9	No
IBM 3284/3286 40/66 @ 120-132 IBM 3288 line printer 120-lpm @ 132 char./line Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200 No	IBM 1053-4 14.8 @ 128 No Half-duplex Asynchronous ASCII	IBM 1053-4 14.8 @ 128 No	IBM 3793 Disk, 4.2-26.9	No
40/66 @ 120-132 IBM 3288 line printer 120-lpm @ 132 char./line Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200	14.8 @ 128 No Half-duplex Asynchronous ASCII	14.8 @ 128 No	_ Disk, 4.2-26.9	No
IBM 3288 line printer 120-lpm @ 132 char./line Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200 No	No Half-duplex Asynchronous ASCII	No		
Half-duplex Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200 No	Asynchronous ASCII		million bytes	– Remote sensors
Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200 No	Asynchronous ASCII	1		
Synchronous BSC/SDLC ASCII/EBCDIC 8 1200 to 7200 No	Asynchronous ASCII	Half-duplex	Half-duplex	Half-duplex
ASCII/EBCDIC 8 12 00 to 72 00 No		Asynchronous	Synchronous	Synchronus
8 12 <mark>00</mark> to 72 <mark>00</mark> No		ASCII	SDLC	BSC/SDLC
12 00 to 72 00 No	ASCII	ASCII	EBCDIC	ASCII/EBCDIC
No	10 1200/2400	10 1200/2400	8 1200/2400	8 1200 to 7200
	1200/2400 No	1200/2400 No	1200/2400 No	No
•	Block only	Block only	Block only	Block only
Std.	Std.	Std.	Std.	Std.
No No	No No	No 	No -	No
RS-232C	RS-232C	RS-232C	RS-232C opt.	RS-232C
Yes No No Opt.	Yes No No Opt.	Yes No No Opt.	Yes Opt. No Opt.	Yes Opt., 1200 bps No No
No	No	No	No	No
No			No	No
Yes No	Yes No			No
100-240 	42-73 	214	See Comments	- - 385-494 (5-yr.)
- 168-213		1_	_	
-	_	_	_	_
_		-	-	_
184-716	431-2,872	183-276	-	_
-	I _		1 _	_
		1		
3,460-6,440	1,295-2,179	5,480	_	12,545-15,000
5,065-7,505	_	<u> </u>	-	-
5,635-14,932	17,530-88,016	7,190-10,576	-	_
-		_	_	_
2nd qtr. 1972	6/66	4/69	1st qtr. 1975	Mid 1976
_	l 	 -	- [']	-
BM -	IBM —	IIBM 	IBM —	IBM -
			Remote shared- processor data en- try system. Pricing	Data collection terminal for rug
NNC NNYN 1 1 1 855	00-240 68-213 84-716 .,460-6,440 .065-7,505 .635-14,932	No No No No No No No No No No No No No N	No No No No No No No No Opt. No No No No No No No No No No No No No N	No No No No No No No No No No No No No N

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Incoterm SPD 320	Incoterm SPD 325	Incoterm SPD 10/20	Incoterm SPD 10/25	Incoterm SPD 20/20
ERMINAL DESCRIPTION					
Processor control	Minicomputer	Minicomputer	Minicomputer	Minicomputer	Minicomputer
Memory range, bytes	16K; 32 opt.	4K	2K	4K	16K-32K
Stand-alone unit	No	Yes	Yes	Yes	No
Local cluster arrangement	Yes	No	No	No	Yes
Remote cluster arrangement	Yes	No	No	No	Yes
Max, no. of displays/controller	8/16	2	2	2	16
Max. no. of printers/controller	16	11	8	4 +7	4-16 +8 = 24
Max. no. of devices/controller	32	12	10	13	40
Any mix of screen sizes/controller	No	No	No	No	No
Computer Interface	No	No	No	No	No
Portable case	No	No	No	No	No
OMPATIBILITY					
BM 3270/3275	Std.	Std.	No	Opt.	Opt.
BM 2260/2265	No	No	Opt.	Opt.	Opt.
Feletype 33/35	No	No	Opt.	Opt.	Opt.
Teletype 40	No	No	No	No	No
Other	No	No	No	No	No
ROGRAMMABILITY					
Programmable via:	1	1			
User-created programs	No	No	Yes	Yes	Yes
User-defined parameters	No	No	No	No	No
Vendor-defined firmware	No	No	No	No	No
User-defined firmware	No	No	No	No	No
/endor-supplied software	3270 emulator	3275 emulator	SPD/DOS (disket-	SPD/DOS (disket-	SPD/DOS (disk
The state of the s	102,000	02,00	te), assembler,	te), assembler,	te), assembler.
			emulation package	emulation package	emulation pack
oftware pricing	Std.	Std.	Std.	Std.	Std.
ISPLAY ORGANIZATION					
Display positions, chars./display	480/960/1920	480/960/1920	960/1920	960/2000	960/1920
Display arrangement, lines x chars./line	12/24 × 40/80	12/24 × 40/80	15/30 x 64	12/25 x 80	12/24 x 80
Display area, h x w, inches	6.5 x 9	6.5 x 9	6.5 x 9	6.5 x 9	6.5 x 9
Total displayable symbols	64	64	64; 121 opt.	64; 128 opt.	64; 128 opt.
Symbol formation	7 x 10 dot matrix	7 x 10 dot matrix	7 x 10; 8 x 14	7 x 10; 8 x 12	7 x 10: 8 x 12
ymber rormación	/ * 10 40 1111411	/ * 10 000 1110 011	(opt.) dot	(opt.) dot	(opt.) dot
ISPLAY FEATURES	ł	1	1		
Color	No	No	No	No	No
Reverse video	No	No	No	No	No
Programmable brightness levels	2 std.	2 std.	No	2 std.	2 std.
Character and/or field blinking	Std.	Std.	Opt.	Opt.	Opt.
Roll	No	No	Opt.	Opt.	Opt.
Paging	No	No	_	_	_
URSOR CONTROL					
Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, F
Right, Home, Return		0.4	0.54	Opt.	Std.
Cursor blinking Addressable/readable cursor	Std. Std.	Std. Std.	Opt. Std.	Std.	Std.
DRMAT CONTROL	l., .	l	0-4	C+-1	644
rotected format	Std.	Std.	Opt.	Std.	Std.
ormat creation via keyboard	No	No	Opt.	No	
ormat editing via keyboard	No	No	Opt.	No	-
ormat storage	Std.	Std.	Opt.	Std.	-
Partial screen transmit	Std.	Std.	Opt. Opt.	Opt. Opt.	Opt. Opt.
abulation	Std.	Std.	PL	Opt.	JP1.
DIT FUNCTIONS	L .	1		0	
Character insert/delete	Std.	Std.	Opt.	Opt.	Opt.
_ine insert/delete	Std.	Std.	Opt.	Opt.	Opt.
Character erase	Std.	Std.	Opt.	Opt.	Opt.
_ine erase	Std.	Std.	Opt.	Opt.	Opt.
Screen erase Character repeat	Std. Std.	Std. Std.	Opt. Opt.	Opt. Opt.	Opt. Opt.
,					
EYBOARD PARAMETERS		1	0	Caucas!	Course
Style	Typewriter	Typewriter	Several	Several	Several
Character/code set	EBCDIC	EBCDIC	Several	Several	Several
	Std.	Std.	Std.	Std.	Std.
Detachability					
Detachability Program function keys	24 std.	24 std.	24 std.	24 std.	24 std.
Detachability Program function keys Cursor control keys			Via software	Via software	Via software
Detachability Program function keys	24 std.	24 std.			

Part 2:

Operator Features
Ancillary Features

Transmission Features Terminal Interface Transmission Parameters Line Interface

	SPD 320	SPD 325	SPD 10/20	SPD 10/25	SPD 20/20
PERATOR FEATURES		1			
Numeric keylock	Via software	Via software	Via software	Via software	Via software
Audible alarm	Opt.	Opt.	Opt.	Opt.	Opt.
Keylock Operator I.D. card reader	Opt. Ne	Opt. No	No No	Opt. No	Opt. No
Light pen	No	No	No	No	No
NCILLARY DEVICES					
Cassette tape drive	Single	No	Single/dual	Single/dual	Single/dual
Diskette drive (floppy disk)	No	No	Single/dual	Single/dual	Single/dual Impact
Serial printer Print speed & print positions, cps	Impact	Impact	Impact	Impact	- Impact
Other devices	No	No	Card readers & punches; mag. tape drives	Card readers & punches; mag. tape drives	Card readers & punches; mag. ta
RANSMISSION PARAMETERS			1		
Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Technique	Synchronous	Synchronous	Async./sync.	Async./sync.	Async./sync. BSC/SDLC
Communications protocol Code	BSC/SDLC ASCII/EBCDIC	BSC/SDLC ASCII/EBCDIC	BSC/SDLC ASCII/EBCDIC	BSC/SDLC ASCII/EBCDIC	ASCII/EBCDIC
Unit code structure, bits/char.	8	8	8/10	8/10	8/10
Speed, bits/second	1200 to 9600	1200 to 9600	Up to 9600	Up to 9600	Up to 9600
Operator selectable speeds	No	No	No	No	No
Format: character, line, or block	Block only	Block only	Char./block	Char./block	Char./block
RANSMISSION FEATURES Multipoint operation (pollable/addr.)	Std.	Std.	Opt.	Opt.	Opt.
Auto answer	No	No	Opt.	Opt.	Opt.
Auto call	No	No	No	No	No
ERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C
INE INTERFACE External modem required Integral modem	Yes No	Yes No	Yes No	Yes No	Yes No
Integral acoustic coupler Vendor-supplied external modem	No No	No No	No No	No No	No No
DIAGNOSTICS					
Self diagnostics	No	No	No	No	No
In line	No	No	No No	No	No No
On line Off line	No No	No No	No	No No	No
RICING (price range shows cost of basic unit and unit with all options)					
Lease price including maintenance:	Contact vendor	Contact vendor	215 (1): 270 (2)	240 (1); 310 (2)	
Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo.	Contact vendor	Contact vendor	215 (1); 270 (2)		62
Display station, 3 year lease, \$/mo.		_	-	_	_
Serial printer, 1 year lease, \$/mo.	_	-	-	_	_
Serial printer, 2 year lease, \$/mo.	_	-	-	_	=
Serial printer, 3 year lease, \$/mo. Controller, 1 year lease, \$/mo.	_	<u> -</u>		_	_
Controller, 2 year lease, \$/mo.	_	_		_	366
Controller, 3 year lease, \$/mo.		-	-	_	_
Purchase price:			0.00(4) = 0.75(0)	= 40=(4) 0 00=(0)	4.005
Display station, \$ Serial printer, \$	_	1_	0,090(1); /,8/5(2)	7,405(1); 9,295(2)	1,665 —
Controller, \$	_ _ _	_		_	10,105
Software, \$	_	1_	I_		_
Quantity discounts available	Yes	Yes	Yes	Yes	Yes
VAILABILITY	1074	1074	6/70	11/74	4/74
Date of first production delivery Display units installed to date	1974	1974	6/70 Over 8,000	- 11//4	4/74 -
Serviced by	Incoterm	Incoterm	Incoterm	Incoterm	Incoterm
No. of service locations	53	53	53	53	53
COMMENTS			Extensive software support includes emulators and assemblers; up to 32 displays per line via multiplexer	Alternate display format is 15/31 x 64	Extensive softwa support includes emulators and as semblers; alterna display format is 15/30 x 64

Part 1:

Terminal Description

Compatibility Programmability

Display Organization Display Features Cursor Control

I211 and R211	Informer D-301 and D-302	Informer M-501	Informer P301, P302, P306	Infoton Vistar/GTX
No 512 Yes No No - - - No No	No 512 No Yes Yes 1 or up to 128 1 or 32 1 Opt. No No	No 512 Yes No No 1 - - No No	No 512 Yes Yes Yes 1 or up to 128 1 or 32 1 	No Yes No No 1 No No
No No Yes No No	No No Yes No No	No No Yes No No	No No Yes No No	No No Yes Yes No
No No No No No	No No No No No	No No No No No	No No No No No	No No No No No
_	_	_	_	_
512 6 x 32 3.5 x 4.5 64; 96 opt. 5 x 7 dot matrix	512 6 x 32 3.5 x 4.5 64; 96 opt. 5 x 7 dot matrix	512 6 x 32 3.5 x 4.5 128 5 x 7 dot matrix	512 6 x 32 3.5 x 4.5 64 5 x 7 dot matrix	1920 24 x 80 7 x9 64 5 x 7 dot matrix
No No 2 std. No	No No 2 std. No	No No 2 std. No	No No 2 std. No	No No No No
Up std. No	Up std. (301 only) No	Up std. No	Up std. (301 only) No	Up std. No
U, D, L, R, H, Rt. Opt.	U, D, L, R, H, Rt. Opt.	None Opt.	U, D, L, R, H, Rt. Opt. Std. addressable	None No No
only No No No 1 std. No No	only No(301); std.(302) No(301); std.(302) No 1 std.	No No No	No(301); std.(302) No(301); std.(302) No 1 std. No(301); opt.(302) No	
No No No No Std. Opt.	No No No No Std. Opt.	No No No No Std. No	No No No No Std. Opt.	No No Opt. No Std. Std.
Typewriter ASCII See comments None 2 std. No	Data entry ASCII No 10 std. 7 std. No Std.	No keyboard	Data entry ASCII No 10 std. 7 std. No Std.	Teletype ASC11 Std. No No No No
•	512 Yes No No No No No No No No No No No No No	S12	S12	Si2

Part 2:

Operator Features
Ancillary Features
Transmission Parameters

Transmission Features
Terminal Interface
Line Interface

VENDOR AND MODEL	Informer I211 and R211	Informer D-301 and D-302	Informer M-501	Informer P301, P302, P306	Infoton Vistar/GTX
OPERATOR FEATURES					
Numeric keylock	Std.	Std.	No	Std.	No
Audible alarm	Std.	Std.	No	Std.	Std.
Keylock Operator I.D. card reader	Std. No	Std. No	No No	Std. No	No No
Light pen	No	No	No	No	No
ANCILLARY DEVICES	1			., ,,,,,	
Cassette tape drive	No	No	No	Yes (306 only)	No No
Diskette drive (floppy disk) Serial printer	No Impact	No Impact	No No	No Impact	No
Print speed & print positions, cps	40 @ 32	40 @ 32	No	40 @ 32	_
Other devices	No	No	No	No	No
RANSMISSION PARAMETERS					
Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duple:
Technique	Asynchronous	Asynchronous	Asynchronous	Asynchronous	Asynchronous
Communications protocol	ASCII	ASCII	ASCII	ASCII	ASCII
Code	ASCII	ASCII	ASCII	ASCII	ASCII
Unit code structure, bits/char.	10	10	110 +0 0600	10	10/11
Speed, bits/second	110 to 9600	110 to 9600 2 std.: 8 opt.	110 to 9600 8 std.	110 to 9600 2 std.; 8 opt.	5 0 -96 00 15 std.
Operator selectable speeds Format: character, line, or block	2 std.; 8 opt. Char. only	2 std.; 8 opt. Char.(301);	Char. only	2 std.; 8 opt. Char. (301);	Char. only
	Char. omy	block (302)	Onar. Omy	block (302)	Onder Only
RANSMISSION FEATURES Multipoint operation (pollable/addr.)	Opt.	Opt.	No	Opt.	No
Auto answer Auto call	No No	No(301); std.(302) No(301); std.(302)	No No	No(301); std.(302) No(301); std.(302)	No No
ERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C.
Enwinae internace	110-2320	113 2320	113-2320	110 2020	CCITT V.24
INE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	Yes
Integral modem	No	No	No	Opt.	No
Integral acoustic coupler	No	No No	No	Opt. (306 only) Opt.	No No
Vendor-supplied external modem	No	NO	No	Opt.	140
DIAGNOSTICS					
Self diagnostics	No	No	No	No	No
In line	No	No	No	No	No
On line Off line	No No	No No	No No	No No	No No
RICING (price range shows cost of					
basic unit and unit with all options)		į			
Lease price including maintenance: Display station, 1 year lease, \$/mo.	99	99	99	99	_
Display station, 2 year lease, \$/mo.	-	-	_	_	
Display station, 3 year lease, \$/mo.	_	_	_	_	
Serial printer, 1 year lease, \$/mo.	99	99	-	99	
Serial printer, 2 year lease, \$/mo.	_	_		_	_
Serial printer, 3 year lease, \$/mo. Controller, 1 year lease, \$/mo.		_	_	_	_
Controller, 2 year lease, \$/mo.	_	_	_	_	
Controller, 3 year lease, \$/mo.	-	-	-	_	_
Purchase price:	4 050 4 666	1,050,1,000	1 500	2.000	1.015
Display station, \$ Serial printer, \$	1,850-1,890 1,075-1,560	1,950-1,990 1,075-1,560	1,590	2,080 1,075-1,560	1,215
Controller, \$	1,075-1,560		_	1,075-1,560 —	_
Software, \$	 —	_	_		-
Quantity discounts available	Yes	Yes	Yes	Yes	Yes, 25 or more
VAILABILITY Date of first production delivery	10/72	8/73	8/73	2/76	4/76
Display units installed to date	1,000	1,000	30	-	_
Serviced by No. of service locations	Informer —	Informer —	Informer —	Informer —	Opscan/Infotor
OMMENTS	I 211 is designed for executive use, with keyboard in drawer; R 211 is	D-301 is stand- alone unit; D-302 is stand-alone or cluster	M-500 is used as a monitor and does not have keyboard		
	rack mounted				

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Infoton Vistar/Satellite	Infoton Vistar/2	Interface Technology Model 736	International Communications Corp. ICC 40+ Data Display System	ITT Model 3501 Asciscope
TERMINAL DESCRIPTION					
Processor control	No	Yes	No	Microprocessor	No
Memory range, bytes	1	12K	_	6K RAM:10K ROM	_
Stand-alone unit	Yes	Yes	Yes	Yes	Yes
Local cluster arrangement	No	No	No	No	No
Remote cluster arrangement	No	No	No	No	No
Max. no. of displays/controller	_	_	_	_	_
Max.no. of printers/controller			l		_
Max. no. of devices/controller	_	_		_	-
Any mix of screen sizes/controller	-	l	_	_	
Computer Interface	No	No	No	No	No
Portable case	No	No	No	No	No
COMPATIBILITY					
IBM 3270/3275	No	No	No	No	No
IBM 2260/2265	No	No	No	Opt.	No
Teletype 33/35	Yes	Yes	Std.	Opt.	Std.
Teletype 40	Yes	Opt.	No	Std.	No
Other	_	_	-	No	No
PROGRAMMABILITY Programmable via: User-created programs User-defined parameters Vendor-defined firmware User-defined firmware Vendor-supplied software	No No No No No	No No Yes Yes No	No No No No No	No No Yes No No	No No No No No
Software pricing	_	-	-	-	_
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation	1920 24 × 80 7 × 9 96 5 × 7 dot matrix	1920 24 × 80 7 × 9 128 5 × 7 dot matrix	4/8/12/16 1 × 16 0.3 inch-high chars. 15 7-segment LED's	1920 24 × 80 5.75 × 10.5 127 7 × 11 dot matrix	960 12 x 80 5 x 8 65 5 x 7 dot matrix
DISPLAY FEATURES	l		l I		N
Color	No	No	No	No	No
Reverse video	No	No	No	Std.; cursor only	No
Programmable brightness levels	No	2 std.	No	2 std.	No
Character and/or field blinking	No	No	No	Both opt.	No
Roll Paging	Up std. No	Up std. No	No No	Opt. Opt.	Std. No
CURSOR CONTROL					
Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	None	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.
Right, Home, Return			l		04.1
Cursor blinking	No	No	No	No	Std.
Addressable/readable cursor	Std.	Std.	No	Std./addressable only	No
FORMAT CONTROL			i	J,	
Protected format	No	Std.	No	Opt.	No
Format creation via keyboard	No	Std.	No	Opt.	No
Format editing via keyboard	No	Std.	No	Opt.	No
Format storage	No	Std.	No	Opt.	No
Partial screen transmit	Std.	Std.	No	Std.	Std.
Tabulation	No	Std.	No	Opt.	No
EDIT FUNCTIONS					
Character insert/delete	No	Std.	No	Std.	No
Line insert/delete	No	Std.	No	Std.	No
Character erase	Std.	Std.	No	Std.	Std.
Line erase	Std.	Std.	No	Std.	No
Screen erase	Std.	Std.	No	Std.	Std.
Character repeat	Std.	Std.	No	Std.	Std.
KEYBOARD PARAMETERS					
Style	Typewriter	Typewriter	Numeric block	Typewriter	Teletype
Character/code set	ASCII	ASCII	Numerics only	ASCII	ASCII
Detachability	Std.	Std.	No	Std.	No
Program function keys	5 std.	6 std.	2 std.	Opt.	None
Cursor control keys	5 std.	5 std.	No	6 std.	6 std.
Edit function keys	No	4 std.	No	8 std.	3 std.
Numeric keypad	Std.	Std.	No	No	No
		L			

Part 2:

Operator Features
Ancillary Features
Transmission Parameters

Transmission Features Terminal Interface Line Interface

VENDOR AND MODEL	Infoton Vistar/Satellite	Infoton Vistar/2	Interface Technology Model 736	International Communications Corp. ICC 40+ Data Display Sys.	ITT Model 3501 Asciscope
OPERATOR FEATURES					
Numeric keylock Audible alarm	Std.	Std.	No	No	No
Kevlock	Std. No	Std. No	Opt. No	Std. No	Std. No
Operator I.D. card reader	No	No	No	No	No No
Light pen	No	No	No	No	No
ANCILLARY DEVICES Cassette tape drive) No.]	l		
Diskette drive (floppy disk)	No No	No No	No No	No No	No
Serial printer	No	No	No	Impact	No Impact/non-imp'i
Print speed & print positions, cps	_	1 = "	-	110@80-240@120	-
Other devices	No	No	No	No	No
TRANSMISSION PARAMETERS	1				
Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Technique	Asynchronous	Asynchronous	Asynchronous	Async./sync.	Asynchronous
Communications protocol	No	Opt.	ASCII	ASCII	ASCII
Code	ASCII	ASCII	ASCII	ASCII	ASCII
Unit code structure, bits/char.	10/11	10/11	10/11	8/10/11	10/11
Speed, bits/second Operator selectable speeds	50-9600 15 std.	50-9600 15 std.	110/300	Up to 3600 Yes	110/300/1200/240
Format: character, line, or block	Char./block	Char./block	Char. only	Yes Char./block	– Char./block
RANSMISSION FEATURES		·			
Multipoint operation (pollable/addr.)	No	Opt.	No	Opt.	No
Auto answer	No	Opt.	No	Opt.	No
Auto call	No	No	No	No	No
ERMINAL INTERFACE	RS-232C, CCITT V.24	RS-232C, CCITT V.24	RS-232C	RS-232C	RS-232C
INE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	No
Integral modem	No	No	No	Opt.	Std.
Integral acoustic coupler	No	No	Opt.	No	Std.
Vendor-supplied external modem	No	No	Opt.	Opt.	No
DIAGNOSTICS	1				
Self-diagnostics	No	No	-	Yes	No
In line	No	No	-	No	No
On line Off line	No No	No No	_	No No	No No
RICING (price range shows cost of basic unit and unit with all options) Lease price including maintenance: Display station, 1 year lease, \$/mo.				140.150	65
Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo.	I_	1_		140-156 125-141	65 -
Display station, 3 year lease, \$/mo.	_	_	_	99-115	_
Serial printer, 1 year lease, \$/mo.		_	_	60-130 (basic)	_
Serial printer, 2 year lease, \$/mo.	l —	_	_	50-117 (basic)	
Serial printer, 3 year lease, \$/mo. Controller, 1 year lease, \$/mo.	_ _ _	_	<u> </u> -	42-100 (basic)	_
Controller, 2 year lease, \$/mo.	_	<u> </u>		_	_
Controller, 3 year lease, \$/mo.	-	_	_	_	_
Purchase price:	1 705	0.705		0 4	- 40-
Display station, \$ Serial printer, \$	1,795	2,795	600	3,750-4,530	2,195
Controller, \$	_ _ _	<u> </u>	_	1,410-3,330 (basic)	_
Software, \$	_	 _	_	_	_
Quantity discounts available	Yes	Yes	Yes	Yes	_
VAILABILITY Date of first production delivery	4/76	3/75	8/74	2/75	12/72
Display units installed to date	[300	60	60	1,000
Serviced by	Opscan/Infoton	Opscan/Infoton	Interface Tech.	ICC	ITT
No. of service locations	50	50	-	Nationwide	
OMMENTS			Terminal contains an LED display and numeric key- board	40 + 10 printer is a modified Oki- data CP 110; 40 + 20, a modified GE TermiNet 1200, calculator firmware is	
				optional	

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

TERMINAL DESCRIPTION Processor control Memory range, bytes Stand-alone unit Local cluster arrangement Remote cluster arrangement Max. no. of displays/controller	No				
Processor control Memory range, bytes Stand-alone unit Local cluster arrangement Remote cluster arrangement	No			l i	
Stand-alone unit Local cluster arrangement Remote cluster arrangement	1	Minicomputer	No	Microprocessor	Microprocessor
Local cluster arrangement Remote cluster arrangement		Up to 128K	_	2-8K	2-8K
Remote cluster arrangement	Yes	Yes	Yes	Yes	Yes
	Yes	Yes	No	No	No
	Yes	Yes	No	No	No
Max. no. of printers/controller	1/4/8/16/32	30 J105's per J100	_	-	_
Max. no. of printers/controller	1/4 36	1		 	-
Any mix of screen sizes/controller	No	30	_	_ No	
Computer Interface	Yes, IBM 360/370		_	No No	No
Portable case	No	No	No; mobile	No	No
COMPATIBILITY					
IBM 3270/3275	No	Opt.	No	No	No
IBM 2260/2265	Std.	No	No	No	No
Teletype 33/35	No	Std.	No	Yes	Yes
Teletype 40 Other	No	No		No	No
Other	No	No		No	No
PROGRAMMABILITY					
Programmable via: User-created programs	No	Yes	Na	1	
User-defined parameters	No	Yes	No No	No	No
Vendor-defined firmware	No	No	No	No Yes	No Yes
User-defined firmware	No	No	No	No	No
Vendor-supplied software	No	Yes	No	No	No
Software pricing	_	_	_	_	
ISPLAY ORGANIZATION	240/480/960/				
Display positions, chars./display	1360/1920	1920	256	960/1920 opt.	1920
Display arrangement, lines x chars./line	6/12/17/24×40/80		8 x 32	12/24 x 80	24 × 80
Display area, h x w, inches	5 x 8	8 x 10	3.38 x 9.18	7.5 x 9.25	7.5 x 9.25
Total displayable symbols	65	96	64	96	128
Symbol formation	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 9 dot matri
DISPLAY FEATURES Color					
Reverse video	No No	No	No	No	No
Programmable brightness levels	No	No Std.	No	No	No
Character and/or field blinking	No	Std.	No No	No No	No Std.
Roll	No	Std.	No	Up std.	Up std.
Paging	No	Std.	No	No	No
URSOR CONTROL					
Cursor positioning; Up, Down, Left, Right, Home, Return	U, D, L, R, H, Rt.	U, D, L, R, H	U, D, L, R, H	U, D, L, R, H, Rt.	U, D, L, R, H, I
Cursor blinking	Std.	644	04.4	S	
Addressable/readable cursor	No	Std. Std.	Std. No	Std. Std.	No Std.
ORMAT CONTROL					o tai
Protected format	Opt.	Std.	No	Std.	Std.
Format creation via keyboard	Opt.		No	Std.	Std.
Format editing via keyboard	Opt.		No	Std.	Std.
Format storage	Opt.		No	None	None
Partial screen transmit Tabulation	Std.		Std.	Opt.	Std.
abulation	Std.	Std.	No	Std.	Std.
DIT FUNCTIONS					
Character insert/delete	Std.	Std.	No	Opt.	Std.
Line insert/delete	No	Std.	No	Opt.	Std.
Character erase	Std.		No	Std.	Std.
Line erase Screen erase	Std.		No	Opt.	Std.
ocreen erase Character repeat	Std. Std.		Std. No	Std. Std.	Std. Std.
EYBOARD PARAMETERS					
Style	Typewriter	Typewriter	Typewriter	Typewriter	Typewriter
Character/code set	ASCII	ASCII	ASCII	ASCII	ASCII
Detachability	No	Std.	No	No	Std.
Program function keys	None	20 std.	11 std.	No	16 std.
Cursor control keys	6 std.	5 std.	5 std.	7 std.	9 std.
Edit function keys	6 std.		1 std.	2 std.	11 std.
Mirrom and a discrete and	17.10+	4 (74-)	No		1044
Numeric keypad [*]	Opt.	Std.	טיין	Opt.	Std.

Part 2:

Operator Features
Ancillary Features

Transmission Parameters

Transmission Features Terminal Interface Line Interface

VENDOR AND MODEL	ITT Model 3100 Alphascope	Jacquard J100 & J105	Kustom MCT-10	Lear Siegler ADM-1	Lear Siegler ADM-2
OPERATOR FEATURES			<u> </u>	 	†
Numeric keylock	No	No	No	No	No
Audible alarm	Std.	Opt.	Std.	Opt.	Std.
Keylock	No	No	No	Std.	Std.
Operator I.D. card reader Light pen	No No	No No	No No	No No	No No
ANCILLARY DEVICES			}		
Cassette tape drive	No	No	No	No	No
Diskette drive (floppy disk)	No	Yes	No	No	No Impact
Serial printer Print speed & print positions, cps	Impact/non-impact	I _	Non-impact	Impact 10 to 960 cps	10 to 960 cps
Other devices	No	Disk and tape	No	No Sou Cps	No No
		units			1
TRANSMISSION PARAMETERS	1				
Mode Technique	Half-duplex Asynchronous	Half/full-duplex Async./sync.	Half/full-duplex Synchronous	Half/full-duplex Asynchronous	Half/full-duplex Async./sync.
Communications protocol	ASCII	ASCII/BSC	ASCII	ASCII	ASCII
Code	ASCII	ASCII/EBCDIC	ASCII	ASCII	ASCII
Unit code structure, bits/char.	10	8/10	8	10/11	10/11
Speed, bits/second	1200/2400/4800	110 to 9600	866/1300	110 to 9600	110 to 9600
Operator selectable speeds Format: character, line, or block	No Block only	 Programmable	 Block only	3 std. Char./block	8 std. Char./block
TRANSMISSION FEATURES	Brock Gilly	1 Togrammable	Block omy	Gilar:/ Biock	Charly Brock
Multipoint operation (pollable/addr.)	Std.	Programmable	Std.	Opt.	Opt.
Auto answer	No.	Opt.	Std.	No.	No.
Auto call	No	No	No	No	No
TERMINAL INTERFACE	RS-232C	RS-232C	_	RS-232C, current loop	RS-232C, current loop
INC INTEREACE					}
LINE INTERFACE External modem required	Yes	Yes	No	Yes	Yes
Integral modem	No	Opt.	Std.	No	No
Integral acoustic coupler	No	Opt.	No.	No	No
Vendor-supplied external modem	Opt.	No	No	No	No
DIAGNOSTICS					
Self diagnostics	No	No	No	No	No
In line	No	No	No	No	No
On line Off line	No No	No No	No No	No No	No No
PRICING (price range shows cost of basic unit and unit with all options) Lease price including maintenance:					
Display station, 1 year lease, \$/mo.	40-45	_	-	-	-
Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo.]_			l <u> </u>	_
Serial printer, 1 year lease, \$/mo.	_	_		_	_
Serial printer, 2 year lease, \$/mo.	_	_	_	_	_
Serial printer, 3 year lease, \$/mo.		_	_	-	_
Controller, 1 year lease, \$/mo.	95-1,920	_	-	_	_
Controller, 2 year lease, \$/mo.	-	-	-	_	-
Controller, 3 year lease, \$/mo. Purchase price:	-		_	_	
Display station, \$	1,200-1,400	Contact vendor	3,650	1,800	2,895
Serial printer, \$	-	_	-		
Controller, \$	6,150-68,525	Contact vendor	27,500-90,000	_	-
Software, \$ Quantity discounts available	_	_	_	_ Yes	_ Yes
AVAILABILITY					Ì
Date of first production delivery	9/70	3/74	3/72	8/73	6/74
Display units installed to date	1,000	_	290	7,000	1,800
Serviced by No. of service locations	ITT & 3rd party	Jacquard 	Kustom	Lear Siegler	Lear Siegler
COMMENTS		J100 contains a CRT, keyboard, and minicomputer with up to 128K bytes of core memory	Mobile terminal for communica- tion via two-way radio; contains plasma display	_	_

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Lier Siegler ADM-3	Leasco ADM-1	Leasco ADM-2	Leasco ADM-3	Megadata Sir-1000 U & Sir-1075/77
ERMINAL DESCRIPTION Processor control	No	Microprocessor	Microprocessor	No	Minicomputer
Memory range, bytes	_	2-8K	2-8K		4K-26K
Stand-alone unit	Yes	Yes	Yes	Y.es	Yes
Local cluster arrangement	No	No	No	No	Via multiplexer
Remote cluster arrangement Max. no. of displays/controller	No 	No	No	No	Via multiplexer 8-32
Max. no. of printers/controller	I_	1_	_	_	8-32
Max. no. of devices/controller	_	-	_		8-32
Any mix of screen sizes/controller	No	No	No	No	Std.
Computer interface Portable case	No No	- No	No	No	No Std.
OMPATIBILITY					
IBM 3270/3275	No	No	No	No	Std. (1075/77)
IBM 2260/2265 Teletype 33/35	No Yes	No Yes	No Yes	No Yes	No No
Teletype 40	No	No	No	No	No
Other	No	No	No	No	Univac (10004)
ROGRAMMABILITY Programmable via:					
User-created programs	No	No	No	No	No
User-defined parameters	No	No	No	No	No
Vendor-defined firmware User-defined firmware	No No	Yes No	Yes No	No No	Std. Std.
Vendor-supplied software	No	No	No	No	No
Software pricing	_	_	-	_	
ISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation	960/1920 12/24 x 80 7.5 x 9.25 64 5 x 7 dot matrix	960/1920 opt. 12/24 x 80 7.5 x 9.25 96 5 x 7 dot matrix	1920 24 × 80 7.5 × 9.25 128 5 × 9 dot matrix	960/1920 12/24 x 80 7.5 x 9.25 64 5 x 7 dot matrix	512/1024/1920/ 2160 8/16 x 64; 24 x 8 8 x 10 64; 128 opt. 7 x 8 dot matrix
•					
ISPLAY FEATURES Color	No	No	No	No	No
Reverse video	No	No	No	No	Std.
Programmable brightness levels Character and/or field blinking	No No	No No	No Std.	No No	Std. Std.
Roll Paging	No No	Up std. No	Up std. No	No No	Std. Opt.
URSOR CONTROL					
Cursor positioning; Up, Down, Left, Right, Home, Return	D, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	D, Rt.	U, D, L, R, H, R
Cursor blinking Addressable/readable cursor	No No	Std. Std.	No Std.	No No	Std. Std.
ORMAT CONTROL					
Protected format	No	Std.	Std.	No	Std.
Format creation via keyboard Format editing via keyboard	No No	Std. Std.	Std. Std.	No No	Std. Std.
Format storage	None	None	None	None	Std.
Partial screen transmit	No	Opt.	Std.	No	Std.
Tabulation	No	Std.	Std.	No	Std.
DIT FUNCTIONS Character insert/delete	No	Opt.	Std.	No	Std.
Line insert/delete	No	Opt.	Std.	No	Std.
Character erase	Std.	Std.	Std.	Std.	Std.
Line erase	No	Opt.	Std.	No	Std.
Screen erase Character repeat	Std. Std.	Std. Std.	Std. Std.	Std. Std.	Std. Std.
EYBOARD PARAMETERS				· - -	
EYBOARD PARAMETERS	Teletype	Typewriter	Typewriter	Teletype	Typewriter
,	ASCII	ASCII	ASCII	ASCII	ASCII
Character/code set	No	No	Std.	No	Opt.
Detachability					1 11- 4- 54
Detachability Program function keys	No	No	16 std.	No	Up to 51
Detachability Program function keys Cursor control keys	No 2 std.	7 std.	9 std.	2 std.	6 std.
Detachability Program function keys	No				

Part 2:

Operator Features Ancillary Features

Transmission Features **Terminal Interface** Transmission Parameters Line Interface

COMPANY	Lear Siegler ADM-3	Leasco ADM-1	Leasco ADM-2	Leasco ADM-3	Megadata Sir-1000 U & Sir-1075/77
OPERATOR FEATURES					
Numeric keylock	No	No	No	No	Opt.
Audible alarm	Std.	Opt.	Std.	Std.	Std.
Keylock	Std.	Std.	Std.	Std.	Std.
Operator I.D. card reader Light pen	No None	No No	No No	No None	Opt.
	None	No	No	None	Opt.
ANCILLARY DEVICES Cassette tape drive	No	No	No	No	Opt.
Diskette drive (floppy disk)	No	No	No	No	Single/dual
Serial printer	No	Impact	Impact	No	Impact
Print speed & print positions, cps	I	10 to 960 cps	10 to 960 cps	i —	120-300 lpm
Other devices	None	None	None	None	Card reader and others
FRANSMISSION PARAMETERS Mode Technique	Half/full-duplex Asynchronous	Half/full-duplex Asynchronous	Half/full-duplex Async./sync.	Half/full-duplex Asynchronous	Half-duplex Asynchronous
Communications protocol	ASCII	ASCII	ASCII	ASCII	ASCII
Code	ASCII	ASCII	ASCII	ASCII	ASCII, BSC
Unit code structure, bits/char.	10/11	10/11	10/11	10/11	10
Speed, bits/second	110 to 19,200	110 to 9600	110 to 9600	110 to 19,200	Up to 19,200
Operator selectable speeds Format: character, line, or block	11 std. Char. only	3 std. Char./block	B std. Char./block	11 std. Char. only	8 std. Char./block
RANSMISSION FEATURES					
Multipoint operation (pollable/addr.)	No	Opt.	Opt.	No	Std.
Auto answer	Opt.	No	No	Opt.	Opt.
Auto call	No	No	No	No	No
ERMINAL INTERFACE	RS-232C, current loop	RS-232C, current loop	RS-232C, current loop	RS-232C, current loop	RS-232C
INE INTERFACE					ļ
External modern required	Yes	Yes	Yes	Yes	Yes
Integral modem	No	No	No	No	Opt.
Integral acoustic coupler	No	No	No	No	Opt.
Vendor-supplied external modem	No	No	No	No	No
DIAGNOSTICS	No	No	No	No	No
Self diagnostics In line	No	No	No	No	No
On line	No	No	No	No	Yes
Off line	No	No	No	No	No
RICING (price range shows cost of basic unit and unit with all options) Lease pricing including maintenance:					
Display station, 1 year lease, \$/mo.		80-94	120-130	65-70	Third party lease
Display station, 2 year lease, \$/mo.	I—	74-87	110-118	62-67	l –
Display station, 3 year lease, \$/mo.		68-78	105-111	59-64	
Serial printer, 1 year lease, \$/mo.	 -	[-	-	_	-
Serial printer, 2 year lease, \$/mo.		-		-	_
Serial printer, 3 year lease, \$/mo.	-	-	-	_	-
Controller, 1 year lease, \$/mo.	_		 -	_	_
Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo.	-	1-	Γ	_	-
Purchase price:	 -	1-	Г	_	_
Display station, \$	1,095	1,950-2,285	2,895-3,100	1,250-1,350	4,500-7,500
Serial printer, \$		_	_,555 0,100		2.000-8.000
Controller, \$	_	_	L	_	2,100 (multiplex
Software, \$		1_	_	_	_
Quantity discounts available	-	-	-	_	Yes
VAILABILITY		4/25	4 /75	10/70	10/70
Date of first production delivery	1/76	4/75	4/75	10/76	12/73 Over 150
Display units installed to date	100	Over 700	Over 700	1	Megadata and C8
Serviced by No. of service locations	Lear Siegler	Leasco 	Leasco -	Leasco -	—
OMMENTS		Produced by Lear Siegler as the ADM-1	Produced by Lear Siegler as the ADM-2	Produced by Lear Siegler as the ADM-3	Sir-1000 replaces UNIVAC's Uni- scope; Sir 1075/ IBM's 3270. De- signed for text editing; cluster arrangement vice
					one or more 8- channel multi- plexers

${\bf Alphanumeric\ Display\ Terminals-Equipment\ Specifications}$

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Megadata SiR-1000 C-4/8	Megadata SiR-1000/WP	Megadata System 700	Memorex 1377	Microtech Micro 2000
TERMINAL DESCRIPTION			Minimum	N4:	N4:
Processor control Memory range, byte	Minicomputer 4K-20K	Minicomputer 8K-20K	Minicomputer 4K-64K	Microprocessor -	Microprocessor 8K-64K
Stand-alone unit	Yes	Yes	Yes	No	Yes
Local cluster arrangement	No	No	Yes	Yes	See Comments
Remote cluster arrangement Max. no. of displays/controller	No -	No 	Yes 8	Yes 32	See Comments
Max. no. of printers/controller		_	1	_	_
Max. no. of devices/controller	_	-	9	-	About 10
Any mix of screen sizes/controller Computer interface	– No	– No	Std. No	_	No
Portable case	No	No	No	No	No
COMPATIBILITY			0.1	0.1	N1-
IBM 3270/3275 IBM 2260/2265	Opt. Opt.	Opt. Opt.	Std. Std.	Std. No	No No
Teletype 33/35	Opt.	Opt.	Std.	No	No
Teletype 40	Opt.	Opt.	Std.	No	No
Other	Burroughs, UNIVAC	Burroughs, UNIVAC	Honeywell	No	No
PROGRAMMABILITY					
Programmable via:	No	No	No	No	Yes
User-created programs User-defined parameters	No	No	Yes	No	-
Vendor-defined firmware	Std.	Std.	Yes	No	Yes
User-defined firmware	Std.	Std.	Yes	No	Yes
Vendor-supplied software	No	No	No	Yes	Macro language, disk operating sys- tem line protocol
Software pricing	-	_	Extra cost	-	Std.
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation	1536 64 × 24 10 × 10 192 7 × 8 dot matrix	6400 80 × 80 10 × 12 192 8 × 12 dot matrix	960/1920/2160 80×24/27; 64×24 8 × 9 64 to 256 7 × 9; 8 × 10/12;	1920 80 x 24 7 x 9.5 89 7 x 9 dot matrix	1920 80 x 24 12-inch diag. 96; 128 opt. 5 x 7 dot matrix
DISPLAY FEATURES			12 x 15		
Color	Std. 4 or 8	No	No	No	No
Reverse video	Opt.	Std. Std.	Std. 2 std.	Std. 2 std.	Std. Std.
Programmable brightness levels Character and/or field blinking	Std. Std.	Std.	Std.	No	Std.
Roll Paging	Std. Opt.	Std. Opt.	Up & down std. Std.	No No	No No
CURSOR CONTROL Cursor positioning; Up, Down, Left,	U. D. L. R. H. Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R	U, D, L, R, H, Rt.
Right, Home, Return					
Cursor blinking Addressable/readable cursor	Std. Std.	Std. Std.	Std. Std.	No Std.	Std. Both std.
FORMAT CONTROL					
Protected format	Std.	Std.	Std.	Std.	Vice program
Format creation via keyboard	Std.	Std.	Std.	No No	Vice program
Format editing via keyboard Format storage	Std. Std.	Std. Std.	Std. Variable	Std.	Vice program Vice program
Partial screen transmit	Std.	Std.	Std.	Std.	Std.
Tabulation	Std.	Std.	Std.	No	Programmable
EDIT FUNCTIONS	Cad	C+d	C+4	Std.	Std.
Character insert/delete Line insert/delete	Std. Std.	Std. Std.	Std. Std.	Sta. No	Sta. Opt.
Character erase	Std.	Std.	Std.	Std.	Std.
Line erase	Std.	Std.	Std.	Std.	Std.
Screen erase Character repeat	Std. Std.	Std. Std.	Std. Std.	Std. Some keys	Std. Std.
KEYBOARD PARAMETERS		·	Typewriter/data	Typewriter/	
Style	Typewriter	Typewriter	entry	console	Typewriter
Character/code set	ASCII	ASCII	ASCII	EBCDIC	ASCII 128
Detachability	Opt.	Opt.	Std.	Std. 12 std.	No 10 std.
Program function keys Cursor control keys	51 6 std.	71 6 std.	71 std. 5 std.	7 std.	6 std.
Edit function keys	8 std.	8 std.	8 std.	5 std.	5 std.
Numeric keypad	Std.	Opt.	Opt.	No	Std.

Part 2:

Operator Features
Ancillary Features
Transmission Parameters

Transmission Features
Terminal Interface
Line Interface

VENDOR AND MODEL	Megadata SiR-1000 C-4/8	Megadata SiR-1000/WP	Megadata System 700	Memorex 1377	Microtech Micro 2000
OPERATOR FEATURES					
Numeric keylock	Opt.	Opt.	Opt.	Std.	Std.
Audible alarm Keylock	Std. Std.	Std.	Std.	Std.	Std.
Operator I.D. card reader	Opt.	Std. Opt.	Std. Opt.	Opt. No	Std. Opt.
Light pen	No	No	Opt.	Opt.	No
ANCILLARY DEVICES Cassette tape drive	Single/dual	Cia ala /dual	Circular (durat	NI -	N
Diskette drive (floppy disk)	Single/dual	Single/dual Single/dual	Single/dual Single/dual	No No	No 2 std.
Serial printer	Impact	Impact	Impact/non-impact		User specified
Print speed & print positions, cps			10 cps	Ξ.	=
Other devices	Card reader and paper tape punch and vendor	Card reader and paper tape punch and vendor	None	None	Fixed head disk line printers
TRANSMISSION PARAMETERS					
Mode	Half-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Technique Communications protocol	Asynchronous ASCII	Asynchronous ASCII	Asynch./sync. ASCII/BSC/SDLC	Synchronous SDLC; BSC	Asynch./sync. ASCII/BSC/SDLC
Code	ASCII	ASCII	ASCII/EBCDIC	ASCII/EBCDIC	ASCII/EBCDIC
Unit code structure, bits/char.	10	10	5 to 11	8	8, 10, 11
Speed, bits/second Operator selectable speeds	Up to 19,200 8 std.	Up to 13,000 cps 8 std.	75-96 00	1200-7200	110 to 9600 No
Format: character, line, or block	8 std. Char./block	8 std. Char./block	8 std. Char./block	– Block	Char., line, block
TRANSMISSION FEATURES					
Multipoint operation (pollable/addr.)	Std.	Std.	Std.	Std.	Std.
Auto answer	Opt.	Opt.	Opt.	No	Std.
Auto call	_		Opt.	No	Std.
TERMINAL INTERFACE	RS-232C	RS-232C	RS-232C, CCITT V.24 20/60 ma	RS-232C	RS-232C
LINE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	Yes
Integral modem	Opt.	Opt.	Opt.	No	Yes
Integral acoustic coupler	Opt.	Opt.	Opt.	No	Opt.
Vendor-supplied external modem	Opt.	Opt.	Opt.	Opt., IBM	No
DIAGNOSTICS			l l		a
Self diagnostics In line	No No	No No	No Yes	No No	Std. No
On line	Yes	Yes	Yes	Yes	Std.
Off line	No	No	Yes	No	Std.
PRICING (price range shows cost of basic unit and unit with all options) Lease price including maintenance:					
Display station, 1 year lease, \$/mo.	-	765 (base)	-	130-163	Third party lease
Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo.	-	390 (base)	_	110-143	-
Serial printer, 1 year lease, \$/mo.	_	_ _		_	_
Serial printer, 2 year lease, \$/mo.	_	_	_	_	-
Serial printer, 3 year lease, \$/mo.	_	_	-	_	
Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo.	_			_	_
Controller, 3 year lease, \$/mo.	_	_	_	_	Ξ
Purchase price:	E 000-7 E00	7 500 (5000)	2 950-12 000	2 800-4 775	7 500 0 000
Display station, \$ Serial printer, \$	5,000-7,500 2,000-8,000	7,500 (base) 2,000-8,000	2,950-12,000 5,000	3,800-4,775	7,500-9,000 —
Controller, \$	_		6,400-9,400	_	_
Software, \$	_	_	2,500-8,000	_	_
Quantity discounts available	Yes, with 10 or more	Yes, with 10 or more	Yes, with 10 or more	No	Yes
AVAILABILITY Date of first production delivery	1973	12/74	2/76	5/76	4/76
Display units installed to date	Over 500	Over 100	75	-	
Serviced by No. of service locations	Megadata and C&W 		Megadata & Sorbus	Memorex 53	Third pr .y
COMMENTS	Data can be dis- played in 4 or 8 colors	cessing)	Minicomputer- based terminal with 4K to 64K bytes of memory; uses DEC assembly language	Microprocessor- based replacement for IBM 3277-2 Display Unit; attaches to IBM controller	Incl. calculator packages; uses Intel 8080A micro proc. with 4-K mir ROM, 256-bytes PROM, and 64K max. RAM. Can be used as central controller for up to 25 MJIS terminals

Part 1:

Terminal Description Compatibility Programmability

Display Organization Display Features Cursor Control

FEMINIAL DESCRIPTION		Microtech MJIS	NCR 796 Series Models 101, 201, 301 & 401	Olivetti DE-520	Olivetti TCV 270	Omron 8025 A
Memory range, bytes Stand-alone unit rangement New Yes New	ERMINAL DESCRIPTION					
Stand-alone unit		-	No			
Local cluster arrangement Yes No		l 	15			
No No No No No No No No						
Max. no. of displays/controller						
Max. no. of devices/controller 0			INO			
Max. np. of devices/controller 10		1.0		4		
Computer interface		10	I –	8		
Portable case	Any mix of screen sizes/controller	_	i –	No	No	-
DAMPATIBILITY No		I-				
IBM 2270/2275	Portable case	Opt.	No	No	No	No
IBM 2270/2275	OMPATIBILITY					
Toletype 40		No	No	lNo l	No	Std.
Teletype 40	IBM 2260/2265	No	No		No	No
Other No						
Burroughs Burr			No			4
ROGRAMMABILITY	Other	No	-		; No	_
Programmable via: User-created programs User-defined programs User-defined programs User-defined programs User-defined programs No				Burroughs		
User-defined parameters No No Yes			1			1
User-defined parameters		No	l No	_{Vac}	Vac	l No
Vendor-supplied firmware						
User-defined firmware						
Vendor-supplied software						
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line 2 x 16	Vendor-supplied software		No		Yes	
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line 2 x 16					 	
Display positions, chars./display 32 1920 220 480; 1920 1920 2 x 48 0 1920 2 x 48 0 1920 2 x 48 0 11 x 31 1 x 40; 24 x 80 2 x x 80 2 x 48 0 2 x	Software pricing	_	_	Std.	Std.	_
Display arrangement, lines x chars./line 2x 16	DISPLAY ORGANIZATION		1			
Display area, n x w, inches		32	1920	920	480; 1920	1920
Total displayable symbols G4 Dot matrix Dot matri		2 x 16	24 × 80	11 x 31	12 × 40; 24 × 80	24 x 80
Dot matrix 5 x 7 dot matrix 5 x 7 dot matrix 5 x 7 dot matrix 5 x 7 dot matrix 5 x 7 dot matrix 5 x 7 dot matrix 7 x 9 dot matrix		1-				
No						
No	Symbol formation	Dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	7 x 9 dot matrix
Reverse video Programmable brightness levels No 2 std., 201, 301, 401 No Character and/or field blinking No Std., 201, 301, 401 No Character and/or field blinking No Std., 201, 301, 401 Character and/or field blinking No Std. Std	ISPLAY FEATURES					
Programmable brightness levels						
Character and/or field blinking						
Roll Paging No						
Paging	Character and/or field blinking	No	Std., 201, 301, 401	Char. std.	NO	Field Std.
CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return None Cursor blinking No Opt., 101 only Opt. Std.			Std.			
Cursor positioning; Up, Down, Left, Right, Home, Return	Paging	No	-	Yes	No	Std.
Right, Home, Return Cursor blinking No No Std.		None	II DI BH		IID I R H Rt	UDIRHR
Cursor blinking		None	0, b, L, n, n	0, D, E, R, H, RE	0, D, L, N, N, NL	0, 0, 2, 1, 11, 11
Std. Std.		No	Opt., 101 only	Opt.	Opt.	Std.
Protected format	Addressable/readable cursor	No	Std.	Std.	Std.	Std.
Std. Std.			1			
Std. Std.			Std.; 201, 301, 401	Std.		
Std. Std.						
Partial screen transmit Std. No						
Tabulation						
Character insert/delete						
Character insert/delete	DIT FUNCTIONS]		
Line insert/delete		No	Std. 201 & 301	No I	Std.	Std.
Character erase						
Line erase						
Character repeat		No	No	Std.		
CEYBOARD PARAMETERS Style Character/code set Detachability Detachability Program function keys Edit function keys None Style Data collection ASCII ASCII ASCII/EBCDIC No No No No No No No No No No No No No						
Style Data collection Typewriter entry entry entry entry ASCII/EBCDIC ASCII/EBCDIC ASCII/EBCDIC ASCII/EBCDIC ASCII/EBCDIC ASCII/EBCDIC ASCII/EBCDIC ASCII/EBCDIC Opt. Opt. 13 std. — None 12 opt. 16 std.; 48 opt. 48 opt. Edit function keys None 5 std. 6 std. 6 std. 5 std. 5 std. 7 std.	Character repeat	NO	Sta.	1		
Character/code set ASCII ASCII/EBCDIC ASCII/EBCDIC </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>Typewriter/data</td>						Typewriter/data
Detachability No No No Std. Opt. Program function keys 13 std. — None 12 opt. 16 std.; 48 opt. Cursor control keys None 5 std. 6 std. 6 std. 6 std. Edit function keys None 6 std. 4 std. 5 std. 7 std.	Style			entry		
Program function keys 13 std. — None 12 opt. 16 std.; 48 opt. Cursor control keys None 5 std. 6 std. 6 std. 6 std. Edit function keys None 6 std. 4 std. 5 std. 7 std.						
Cursor control keys None 5 std. 6 std. 6 std. 6 std. 5 std. 7 std.	Character/code set		INO			
Edit function keys None 6 std. 4 std. 5 std. 7 std.	Character/code set Detachability		ı 			
	Character/code set Detachability Program function keys		E etcl	is eta	6 e+d	
	Character/code set Detachability Program function keys Cursor control keys	None				
	Character/code set Detachability Program function keys Cursor control keys Edit function keys	None None	6 std.	4 std.	5 std.	7 std.

Part 2:

Operator Features Ancillary Features

Transmission Features **Terminal Interface** Transmission Parameters Line Interface

VENDOR AND MODEL	Microtech MJIS	NCR 796 Series Models 101, 201, 301 & 401	Olivetti DE-520	Olivetti TCV 270	Omron 8025 A
OPERATOR FEATURES					
Numeric keylock Audible alarm	Std.	- Std 101: Opt 201	Opt. Std.	Opt.	-
Keylock	Sid. -	Std.,101; Opt.,201	Opt.	Std. Opt.	Std.
Operator I.D. card reader	No	No	No	Opt.	No
Light pen	No	No	No	Opt.	No
ANCILLARY DEVICES Cassette tape drive	No	No	 Single/dual	No	1 or 2 drives
Diskette drive (floppy disk)	Single	No	Dual	Dual	No
Serial printer	Opt.	Non-impact (NCR)	Impact	Impact	Impact/non-impact
Print speed & print positions, cps Other devices	Hand-held wand	None	100 to 300 None	100 to 300 None	_
TRANSMISSION PARAMETERS	11-16 1-1-1	11-15/5-11 11		F. W. V	
Mode Technique	Half-duplex Asynchronous	Half/full-duplex Asynchronous	Full-duplex Async./sync.	Full-duplex Async./sync.	Half/full-duplex Async.A, B/sync.
Communications protocol	ASCII	ASCII	ASCII/BSC	ASCII/BSC	ASCII/BSC
Code	ASCII	ASCII	ASCII/EBCDIC	ASCII/EBCDIC	ASCII/EBCDIC
Unit code structure, bits/char. Speed, bits/second	10/11 2400; 9600 paral.	10/11 110 to 9600	8/10/11 110 to 4800	8/10/11 600 to 4800	8/10/11 Up to 2400/9600
Operator selectable speed	 -	-	No	No	_
Format: character, line, or block	Block only	Char./block	Block only	Block only	Char./block
TRANSMISSION FEATURES Multipoint operation (pollable/addr.)	Std.	Std., 301 only	Std.	Std.	Opt.
Auto answer	Std.	No	Opt.	No	Opt.
Auto call	No	No	No	No	No
TERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C
LINE INTERFACE					
External modem required Integral modem	Yes Opt.	No Std., 201	Yes No	Yes No	Yes
Integral acoustic coupler	No	Opt., 201	No	No	Opt. No
Vendor-supplied external modem	No	No	Opt.	Opt.	No
DIAGNOSTICS			l.,	.,	
Self diagnostics In line	No No	No No	Yes Yes	Yes Yes	_
On line	No	No	Yes	Yes	_
Off line	No	No	Yes	Yes	-
PRICING (price range shows cost of basic unit and unit with all options)			!		
Lease price including maintenance:					
Display station, 1 year lease, \$/mo.		80-150	 160-550	-	
Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo.	_	_	 	120-235 —	85-370
Serial printer, 1 year lease, \$/mo.		75-150	-		-
Serial printer, 2 year lease, \$/mo. Serial printer, 3 year lease, \$/mo.	_	70-130	126	126	_
Controller, 1 year lease, \$/mo.	_	_	 -	_	_
Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo.	_		_	_	_
Purchase price:	_	_			_
Display station, \$	Sold OEM only	2,000-3,500	6,600-20,000	5,000-10,000	2,800-36,000
Serial printer, \$ Controller, \$	_	1,465-5,615	3,800	3,800	
Software, \$	l-	_	_	-	
Quantity discounts available	Yes	_	No	No	Yes
AVAILABILITY Date of first production delivery		1/74	2/71	10/74	12/72
Display units installed to date	_	1/74 3,000 (all models)	2/71 22,000	10/74 15,000	12/73 Over 1,000
Serviced by	_	NCR	Olivetti	Olivetti	Omron & W.U.
No. of service locations	_	-	150	150	_
COMMENTS	Data collection	Manufactured by	Manufactured by	Options include	Microprocessor-
	terminal for fac- tory use; uses	ADDS as models 580 (101), 880	Sycor, Inc. as Model 340; uses	6K RAM, check	based unit with up
	plasma (gas) dis-	(201), and 880A	Olivetti TPS	digit verification, and arithmetic	to 16K bytes of RAM in 2K or 4K
	play	(301)	assembler-type	and logical opera-	increments; soft-
			language	tions; made by Sycor, Inc., as	ware support; Diablo HyType
		1		Model 250	printer available
		1			
	1	}			

Part 1:

Terminal Description Compatibility Programmability Display Organization
Display Features
Cursor Control

VENDOR AND MODEL	Ontel OP-1	Ontel 4000 Series	Pertec Model 7100	Plantronics VU Set DS-150A	Quotron Series 800
TERMINAL DESCRIPTION					
Processor control	Microprocessor	Microprocessor	Microprocessor	No	Minicomputer
Memory range, bytes	4K-64K	1K to 4K	_	l –	4K-128K
Stand-alone unit	Yes	Yes	Yes	Yes	No
Local cluster arrangement	Yes	No	No	No	Yes
Remote cluster arrangement	Yes	No	No	No	Yes 24
Max. no. of displays/controller Max. no. of printers/controller	4	_		-	24
Max. no. of devices/controller	4	<u> </u> _			36
Any mix of screen sizes/controller	No	i_	<u> </u>	_	No
Computer interface	No	No	No	No	No
Portable case	No	No	Std.	No	No
COMPATIBILITY			1		
IBM 3270/3275	No	No	No	No	Opt.
IBM 2260/2265	No	No	No	No	Opt.
Teletype 33/35	Std.	Std.	Std.	Std.	Opt.
Teletype 40	No	No	No	No	No
Other	No	Burroughs 8000; IBM 2741	No	No	No
PROGRAMMABILITY Programmable via:					
User-created programs	Yes	No	No	No	Yes
User-defined parameters Vendor-defined firmware	Yes Yes	No Yes	No Yes	No No	No No
Vendor-defined firmware User-defined firmware	Yes	No	Yes	No	No
Vendor-supplied software	Yes	No	No	No	Assembly langu-
validas dappinad saltualia	1.55				age, operating system, others
Software pricing	Std.	Std.	-	-	Std.
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation	1600/1920/2000 20/24/25 x 80 7 x 10 128/256 5 x 10/13 x 11 dot matrix	1600 20 x 80 7 x 10 112 5 x 10 dot matrix	960/1920 12/24 x 80 5.5 x 8.25 64; 96 opt. 7 x 9 dot matrix	64 4 x 16 3-inch diag. 64 5 x 7 dot matrix	1200/1600 20 x 60/80 48 x 64; 6 x 8 96 14 x 22 dot matrix
DISPLAY FEATURES	dot matrix				
Color	No	No	No	No	No
Reverse video	Std. ,	Std.	Std.	No	Opt.
Programmable brightness levels	2 std.	No	No	2 std.	No
Character and/or field blinking	Both std.	Field std.	No	Field std.	Opt.
Roll Paging	Up & down std.	Up & down std. —	Std. -	No No	No No
CURSOR CONTROL Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H	None	U, D, L, R, H, Rt.
Right, Home, Return	Std.	Std.	Std.	No	Std.
Cursor blinking Addressable/readable cursor	Std.	Std.	Std.	No	Std.,addressable only
FORMAT CONTROL			1		,
Protected format	Std.	Std.	Std.	No	Opt.
Format creation via keyboard	Std.	Std.	Std.	No	Opt.
Format editing via keyboard	Std.	Std.	Std. Std.	No No	Opt.
Format storage Partial screen transmit	Variable Std.	Std. Std.	Std.	No	Opt.
Tabulation	Std.	Std.	Std.	No	Opt.
 EDIT FUNCTIONS					
Character insert/delete	Std.	Std.	Std.	No	Opt.
Line insert/delete	Std.	Std.	Std.	No	Opt.
Character erase	Std.	No	No	No	Std.
Line erase	Std.	Std.	Opt.	No	No
Screen erase Character repeat	Std.	Std. Std.	Std. Std.	Std. No	Std. Opt.
KEYBOARD PARAMETERS				Touch-Tone; 12	·
Style	Teletype	Teletype	Typewriter	keys	Block/typewriter
Character/code set	ASCII	ASCII/APL	ASCII	DTMF	ASCII
Detachability	Std.	Std.	Std.	Std.	Std.
Program function keys	38 std.	None	5 std.; 11 opt.	2 std.	10 opt.
Cursor control keys	5 std.	5 std.	5 std.	No No	6 std. 2 std.; 5 opt.
Edit function keys Numeric keypad	Programmable Std.	3 std. Std.	6 std.; 1 opt. Opt.	Std.	No

Part 2:

Operator Features **Ancillary Features**

Transmission Features **Terminal Interface** Transmission Parameters Line Interface

VENDOR AND MODEL	Ontel OP-1	Ontel 4000 Series	Pertec Model 7100	Plantronics VU Set DS-150A	Quotron Series 800
OPERATOR FEATURES				No	
Numeric keylock Audible alarm	No Std.	No Std.	Std.	Std.	Opt.
Keylock	No	No	-	No	
Operator I.D. card reader	No	No		No	No
Light pen	No	No	No	No	No
NCILLARY DEVICES	1 to 4 drives	No	No	No	No
Cassette tape drive Diskette drive (floppy disk)	1 to 4 drives	No	No	No	Single
Serial printer	Impact/non-impact		Impact	No	Impact/non-impa
Print speed & print positions, cps	 - '	-	1		
Other devices	None	Cartridge disk drives (Diablo series 20 & 30)	None	None	Card reader, disk and mag. tape drives and printer
TRANSMISSION PARAMETERS	LL 16/6 11 domina	Lieté/feett desminer	Half/full duploy	Half-duplex	Half/full-duplex
Mode	Half/full-duplex Async./sync. opt.	Half/full-duplex Async./sync. opt.	Half/full-duplex Async./sync.	Asynchronous	Async./sync.
Technique Communications protocol	ASCII/BSC	ASCII	ASCII	ASCII	ASCII/BSC/Baudo
Code	ASCII/EBCDIC	ASCII/EBCDIC	ASCII	ASCII/DTMF	ASCII/EBCDIC
Unit code structure, bits/char.	7/11	10/11	8/10/11	10/11	8/10/11
Speed, bits/second	Up to 2400/9600	Up to 50,000	Up to 9600	110, 150, 300	37.5 to 9600
Operator selectable speeds Format: character, line, or block	17 std. Char./block	11 std. Char./block	Char./block	Char. only	Char./block
TRANSMISSION FEATURES					• _
Multipoint operation (pollable/addr.)	Opt.	Opt.	Std.	No	Opt.
Auto answer	Opt.	No	Std.	No	Opt.
Auto call	No	No	No	No	No
TERMINAL INTERFACE	RS-232C, 20 ma	RS-232C, 20 ma	RS-232C	RS-232C	RS-232C
LINE INTERFACE External modem required Integral modem Integral acoustic coupler Vendor-supplied external modem	Yes Opt. No Opt.	Yes No No No	Yes Opt. No	Yes Std. No No	Yes No No
			,	j i	
DIAGNOSTICS Self diagnostics	Yes	No	No	No	_
In line	No	No	No	No	_
On line	No	No	No	No	
Off line	Yes	No	No	No	_
PRICING (price range shows cost of					
basic unit and unit with all options) Lease price including maintenance:					
Display station, 1 year lease, \$/mo.	Sold OEM only	Sold OEM only	Sold OEM only	See Comments	_
Display station, 2 year lease, \$/mo.	_	-	-	-	_
Display station, 3 year lease, \$/mo.	-	_	-	_	_
Serial printer, 1 year lease, \$/mo.	_	_	1=	-	_
Serial printer, 2 year lease, \$/mo. Serial printer, 3 year lease, \$/mo.	_	_		_	_
Controller, 1 year lease, \$/mo.		_	-	-	
Controller, 2 year lease, \$/mo.	-	_	I -	-	
Controller, 3 year lease, \$/mo.	-	_	2 225 2 626	-	
Purchase price:	1 705 (05: 100)	2,950 (qty. 100)	2,235-2,638 (gty. 51-100)	_	1,200-4,200
Display station, \$ Serial printer, \$	1,795 (qty. 100) 2,500	2,950 (qty. 100)	-	_	-
Controller, \$	_	_	_	-	26,000-90,000
Software, \$	_	-	-	-	
Quantity discounts available	Yes	Yes	-	-	_
AVAILABILITY		4070	4/74	4/73	9/71
Date of first production delivery	11/74	1970	4/74 Over 2,000	800	8,000
Display units installed to date Serviced by	Over 300 Third party	Over 450 Third party	Pertec	Local telephone co.	
No. of service locations	- Party	-	-	-	_
COMMENTS				Leased to user by local telephone co. for about \$30 to \$35 per month; unit attaches directly to telephone set	Display-oriented minicomputer system; 16-bit processor has 75 nanosecond cycl time

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Randal Data Systems Models CT1, CT2, & CT3	Raytheon Data Systems PTS-100	Raytheon Data Systems PTS/1200	Research Inc. Teleray Model 3311	Research, Inc. Teleray Model 3511 and 3711
FERMINAL DESCRIPTION					
Processor control	Microprocessor	Minicomputer	Minicomputer	No	No
Memory range, bytes	_	8/16K-32K/64K	48K to 128K	_	_
Stand-alone unit	Yes	Yes	Yes	Yes	Yes
Local cluster arrangement	No	Yes	Yes	No	No
Remote cluster arrangement	No	Yes	Yes	No	No
Max. no. of displays/controller		32	24	_	_
Max. no. of printers/controller	_	20	20		_
Max. no. of devices/controller		32	46	_	_
Any mix of screen sizes/controller	_	Std.	Std.	_	_
Computer interface Portable case	No OTC: 00 H	No	No	No	No
For table case	CT3; 20 lbs	No	No	No	No
OMPATIBILITY					
IBM 3270/3275	No	BSC	No	No	No
IBM 2260/2265	No	Std.	No	No	No
Teletype 33/35	Std.	Opt.	Std.	Std.	Std.
Teletype 40	No	No	No	No	No
Other	No	Uniscope U-100	IBM 2780 & BSC	No	No
		PARS	1, 2, 3, disciplines		
ROGRAMMABILITY					
Programmable via:			i l		
User-created programs	No	Yes	Yes	No	No
User-defined parameters	No	Yes	Yes	No	No
Vendor-defined firmware User-defined firmware	Yes	No	No	No	No
Vendor-supplied software	- No	No	No	No	No
vendor-supplied software	NO	2260, 3270, U 100	Language, Op. Sys	No	No
	j	PARS emulators, Cross Assembler,	tem, Utilities		
		Utilities			
Software pricing	_	Std.	Std.	_	_
· •					
SPLAY ORGANIZATION					
Display positions, chars./display	1920; 960 (CTI)	480/960/1920	480/960/1920	1920	1920
Display arrangement, lines x chars./line	24 x 80; 12 x 24	12,15,16,24,30lin.	12/24×40 or 80	24 × 80	24 × 80
Display area, h x w, inches	6 x 9	7 x 10	8.5 x 11	7.5 x 9.5	7.5 x 9.5
otal displayable symbols	128; 96 (CTI)	64; 96 opt.	96	64	64; 95 (3711)
ymbol formation	5 x 7 dot matrix	7 x 7/9 dot matrix	7 x 9 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix
SPLAY FEATURES					
Color	No I	No	No	No	No
Reverse video	No	No	No	No	No
Programmable brightness levels	2 std. (CT 1 & 2)	2 std.	2 std.	No	No
Character and/or field blinking	Std., (CT 1 & 2)	Both std.	Both s.d.	No	No
201	(i			
Roll Paging	Std., (CT 1 & 2)		Up & down std.	Up std.	Up std.
aging	Std., (CT 2)	No	Any no. pages std.	No	No
JRSOR CONTROL					
Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	D, H, Rt.	D, L, R, H, Rt.
Right, Home, Return	., ., ., ., .,	-, -, -, ., .,	-, -, -,,,	2,,	σ, <u>-</u> ,,,
Cursor blinking	Std. (CT 2) Opt.(1)	No	No	No	No
Addressable/readable cursor	Std., (CT 1 & 2)	Std.	Std.	No	No
VDMAT CONTROL					
	C++ /OT 4 0 0\	0.4		••	
Protected format	Std., (CT 1 & 2)	Std.	Std.	No	No
rotected format format creation via keyboard	Std., (CT 1 & 2)	No	Std.	No	No
rotected format ormat creation via keyboard ormat editing via keyboard		No No	Std. Std.	No No	No No
rotected format ormat creation via keyboard ormat editing via keyboard ormat storage	Std., (CT 1 & 2) Std., (CT 1 & 2)	No No No limit	Std. Std. No limit	No No No	No No No
rotected format ormat creation via keyboard ormat editing via keyboard ormat storage artial screen transmit	Std., (CT 1 & 2) Std., (CT 1 & 2) - Std., (CT 1 & 2)	No No No limit Std.	Std. Std. No limit No	No No No No	No No No No
rotected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit	Std., (CT 1 & 2) Std., (CT 1 & 2)	No No No limit	Std. Std. No limit	No No No	No No No
rotected format ormat creation via keyboard ormat editing via keyboard ormat storage artial screen transmit abulation DIT FUNCTIONS	Std., (CT 1 & 2) Std., (CT 1 & 2) - Std., (CT 1 & 2)	No No No limit Std.	Std. Std. No limit No	No No No No	No No No No
rotected format Format creation via keyboard Format editing via keyboard Format storage Fartial screen transmit Fabulation OIT FUNCTIONS Character insert/delete	Std., (CT 1 & 2) Std., (CT 1 & 2) - Std., (CT 1 & 2)	No No No limit Std.	Std. Std. No limit No	No No No No	No No No No
rotected format format creation via keyboard format editing via keyboard format storage format storage format storage format screen transmit fabulation DIT FUNCTIONS Character insert/delete Line insert/delete	Std., (CT 1 & 2) Std., (CT 1 & 2) 	No No No limit Std. Std.	Std. Std. No limit No Std.	No No No No No	No No No Opt.
rotected format cormat creation via keyboard cormat editing via keyboard cormat storage artial screen transmit fabulation DIT FUNCTIONS character insert/delete character erase	Std., (CT 1 & 2) Std., (CT 1 & 2) 	No No No limit Std. Std. Std. Std. Std.	Std. Std. No limit No Std. Std. Std. Std. Std.	No No No No No No No	No No No Opt. No No No
Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Fabulation DIT FUNCTIONS Character insert/delete Line insert/delete Line acter erase Line erase Line erase	Std., (CT 1 & 2) Std., (CT 1 & 2) - Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 2); Opt.(1) Std., (CT2); Opt.(1) Std. Std. Std.	No No No limit Std. Std. Std. Std. Std. Std. Std.	Std. Std. No limit No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No No No	No No No Opt. No No No No
rotected format contac	Std., (CT 1 & 2) Std., (CT 1 & 2) - Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 2); Opt.(1) Std., (CT2); Opt.(1) Std., Std. Std. Std. Std. Std. Std. Std. Std.	No No No limit Std. Std. Std. Std. Std. Std. Std. Std	Std. Std. No limit No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No No No No	No No No Opt. No No No Std.
rotected format ormat creation via keyboard ormat editing via keyboard ormat storage artial screen transmit 'abulation DIT FUNCTIONS character insert/delete ine insert/delete ine erase creen erase creen erase	Std., (CT 1 & 2) Std., (CT 1 & 2) — Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT2); Opt.(1) Std., (CT2); Opt.(1) Std. Std. Std. Std. Std.	No No No limit Std. Std. Std. Std. Std. Std. Std.	Std. Std. No limit No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No No No	No No No Opt. No No No No
rotected format cormat creation via keyboard cormat editing via keyboard cormat storage artial screen transmit fabulation DIT FUNCTIONS character insert/delete character erase creen erase character repeat	Std., (CT 1 & 2) Std., (CT 1 & 2) - Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 2); Opt.(1) Std., (CT2); Opt.(1) Std., Std. Std. Std. Std. Std. Std. Std. Std.	No No No limit Std. Std. Std. Std. Std. Std. Std. Std	Std. Std. No limit No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No No No No	No No No Opt. No No No No Std. Std.
Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Fabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Character repeat EYBOARD PARAMETERS	Std., (CT 1 & 2) Std., (CT 1 & 2) - Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 2); Opt.(1) Std., (CT2); Opt.(1) Std. Std. Std. Std. Std., (CT2); Opt. (2)	No No No Iimit Std. Std. Std. Std. Std. Std. Std. Std	Std. Std. No limit No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No No No No No Std.	No No No Opt. No No No Std. Std. Teletype (3511)
rotected format cormat creation via keyboard cormat editing via keyboard cormat storage artial screen transmit abulation DIT FUNCTIONS character insert/delete character erase character erase character repeat EYBOARD PARAMETERS tyle	Std., (CT 1 & 2) Std., (CT 1 & 2) - Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 2); Opt.(1) Std., (CT2); Opt.(1) Std. Std. Std. Std. Std. Std. Std. Std.	No No No Iimit Std. Std. Std. Std. Std. Std. Std. Std	Std. Std. No limit No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No No Std.	No No No No No No No No No Std. Teletype (3511) Typewriter (371
rotected format format creation via keyboard format editing via keyboard format storage artial screen transmit fabulation DIT FUNCTIONS character insert/delete cine insert/delete character erase creen erase	Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 2); Opt. (1) Std., (CT2); Opt. (1) Std. Std. Std. Std. Std., (CT2); Opt. (2) Teletype ASCII	No No No Iimit Std. Std. Std. Std. Std. Std. Std. Std	Std. Std. No limit No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No Std. Teletype ASCII	No No No No No No No No No Std. Std. Teletype (3511) Typewriter (371 ASCII
Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Fabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Character repeat EYBOARD PARAMETERS Etyle Character/code set Detachability	Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 2); Opt.(1) Std., (CT2); Opt.(1) Std. Std. Std. Std. Std. CT2); Opt. (2) Teletype ASCII Std., (CT2); Opt.(1)	No No No Iimit Std. Std. Std. Std. Std. Std. Std. Std	Std. Std. No limit No Std. Std. Std. Std. Std. Std. Std. Std	No No No No No No No No Std. Teletype ASCII Opt.	No No No Opt. No No No No Std. Std. Teletype (3511) Typewriter (371 ASCII Opt.
Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Fabulation DIT FUNCTIONS Character insert/delete Line insert/delete Line erase Line erase Character repeat EYBOARD PARAMETERS Etyle Character/code set Detachability Program function keys	Std., (CT 1 & 2) Std., (CT 1 & 2) - Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 2); Opt.(1) Std., (CT2); Opt.(1) Std., (CT2); Opt.(1) Std. Std. Std. Std. Std. Std., (CT2); Opt.(1) Std. Std., (CT2); Opt.(1) Std., (CT2); Opt.(1) Std., (CT2); Opt.(1)	No No No Iimit Std. Std. Std. Std. Std. Std. Std. Std	Std. Std. No limit No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No No Std. Teletype ASCII Opt. No	No No No No No No No No No Std. Std. Teletype (3511) Typewriter (371 ASCII Opt. No
ORMAT CONTROL Protected format Format creation via keyboard Format storage Partial screen transmit Fabulation DIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Character repeat EYBOARD PARAMETERS Byle Character/code set Detachability Program function keys Cursor control keys Edit function keys	Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 2); Opt.(1) Std., (CT2); Opt.(1) Std. Std. Std. Std. Std. CT2); Opt. (2) Teletype ASCII Std., (CT2); Opt.(1)	No No No Imit Std. Std. Std. Std. Std. Std. Std. Std	Std. Std. No limit No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No No Std. Teletype ASCII Opt. No 3 std.	No No No No No No No No No No Std. Std. Teletype (3511) Typewriter (371 ASCII Opt. No Std.
Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Fabulation DIT FUNCTIONS Character insert/delete Line insert/delete Line erase Character erase Line erase Character repeat EYBOARD PARAMETERS Style Character/code set Detachability Program function keys	Std., (CT 1 & 2) Std., (CT 1 & 2) - Std., (CT 1 & 2) Std., (CT 1 & 2) Std., (CT 2); Opt.(1) Std., (CT2); Opt.(1) Std., (CT2); Opt.(1) Std. Std. Std. Std. Std. Std., (CT2); Opt.(1) Std. Std., (CT2); Opt.(1) Std., (CT2); Opt.(1) Std., (CT2); Opt.(1)	No No No Iimit Std. Std. Std. Std. Std. Std. Std. Std	Std. Std. No limit No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No No Std. Teletype ASCII Opt. No	No No No Opt. No No No No No Std. Std. Teletype (3511) Typewriter (371 ASCII Opt. No

Part 2:

Operator Features
Ancillary Features
Transmission Parameters

Transmission Features Terminal Interface Line Interface

VENDOR AND MODEL	Randal Data Systems Models CT1, CT2, & CT3	Raytheon Data Systems PTS-100	Raytheon Data Systems PTS/1200	Research, Inc. Teleray Model 3311	Research, Inc. Teleray Model 3511 and 3711
OPERATOR FEATURES					
Numeric keylock	Std., (CT 1 & 2)	Opt.	Opt.	_	-
Audible alarm	Std.	Opt.	Opt.	Std.	Opt.
Keylock Operator I.D. card reader	Std. No	Opt.	Opt.	No	No
Light pen	No	No	No	No	No
ANCILLARY DEVICES	_				N
Cassette tape drive	Opt.	4 drives max. No	Single No	No No	No No
Diskette drive (floppy disk) Serial printer	Opt.	Impact	Impact	No	No
Print speed & print positions, cps	 -	– '	l -	-	
Other devices	None	Card reader, disk drive	Disk, card reader	None	None
TRANSMISSION PARAMETERS					
Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Technique	Asynchronous	Async./sync. BSC/PARS/U 100	Synchronous BSC	Asynchronous ASCII	Asynchronous ASCII
Communications protocol Code	ASCII ASCII	ASCII/EBCDIC	EBCDIC	ASCII	ASCII
Unit code structure, bits/char.	10/11	6/8/10	8	10/11	10/11
Speed, bits/second	75-9600	Up to 96 00	Up to 96 00	110 to 2400	75 to 9600
Operator selectable speeds Format: character, line, or block	Std. Char./block; char.	Block only	Block only	Char. only	Char. only
TRANSMISSION FEATURES	only (CT3)				
Multipoint operation (pollable/addr.)	Opt., (CT 1 & 2)	Std.	Std.	No	No No
Auto answer Auto call	Opt., (CT 1 & 2) No	Opt. No	Opt. No	No —	_
TERMINAL INTERFACE	RS-232C	RS-232C, CCITT V.24	RS-232C, CCITT V.24	RS-232C	RS-232C
LINE INTERFACE			Yes	Opt.	Opt.
External modem required Integral modem	Opt. No	Yes No	No	No	Opt.
Integral acoustic coupler	No	No	No	Opt.	Opt.
Vendor-supplied external modem	Opt.	Yes	Yes	No	No
DIAGNOSTICS Self diagnostics	Yes	Yes	Yes	No	No
In line	No	Yes	Yes	No	No
On line	No	Yes	Yes	No	No
Off line	Yes	Yes	Yes	No	No
PRICING (price range shows cost of basic unit and unit with all options)					
Lease price including maintenance:					54.04 (0744)
Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo.	64-135 60-138	52 	52	51 48	54; 61 (3711) 51; 57 (3711)
Display station, 2 year lease, \$/mo.	42-98	45	45	-	-
Serial printer, 1 year lease, \$/mo.	156	150-215	150-215	_	_
Serial printer, 2 year lease, \$/mo. Serial printer, 3 year lease, \$/mo.	148 105	_ 130-185	130-185	_	_
Controller, 1 year lease, \$/mo.	_	280-870	995-2,200	_	
Controller, 2 year lease, \$/mo.	-	- 240 740	920 1 900	_	<u> </u>
Controller, 3 year lease, \$/mo. Purchase price:	_	240-740	830-1,800	_	1,300; 1,400
Display station, \$	1,240-2,875	1,550	1,550	1,200	(3711) -
Serial printer, \$	3,085	3,200-5,950 8,600-22,600	3,600-5,950 28,650-60,000	_	_
Controller, \$ Software, \$	12,000-39,350 —	-	_	_	_
Quantity discounts available	Yes	Yes	Yes	Yes	Yes
AVAILABILITY					
Date of first production delivery	8/73; 6/74; 12/75	9/72	11/74	2/72	4/75; 9/74 (371 ⁻ Over 1,200
Display units installed to date Serviced by	2,250 Randal Data	20,000 Raytheon	20,000 Raytheon	Over 2,000 Western Union	Western Union
No. of service locations	400	75	75	-	-
		Alternate display	Includes PTS-100	20 ma. current	20 ma, current
COMMENTS		formats are 15/30	components	loop and TTL	loop and TTL
		× 64	,	logic interfaces also available	logic interfaces also available
				aisu available	also available
		i			
					

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Research, Inc. Teleray Model 3811	Research, Inc. Teleray Model 3931	Sanders Data Systems 620 & 622 Data Display Systems	Sanders Data Systems 720 Data Display System	Sanders Data Systems 804 System
FERMINAL DESCRIPTION					
Processor control	No	No	No	No	Minicomputer 4K
Memory range, bytes		_ Yes	Yes	No	Yes
Stand-alone unit	Yes	Y es No	No	Yes	No
Local cluster arrangement Remote cluster arrangement	No No	No	No	Yes	No
Max. no. of displays/controller	_		120	12	_
Max. no. of printers/controller	_		1_	<u> </u>	_
Max. no. of devices/controller	_	l	l- I	12	_
Any mix of screen sizes/controller	_	-	I I	-	_
Computer interface	No	No	No	No	_
Portable case	No	No	No	No	No
OMPATIBILITY			1		
IBM 3270/3275	No	No	No	No	No
IBM 2260/2265	No	No	Std.	Std.	Opt.
Teletype 33/35	Std.	Std.	No	No	Opt.
Teletype 40	No	No	No	No	No
Other	No	No	No	No	No
ROGRAMMABILITY					
Programmable via:			1		.,
User-created programs	No	No	No	No	Yes No
User-defined parameters	No	No	No	No No	No No
Vendor-defined firmware	No	No No	No No	No	No
User-defined firmware Vendor-supplied software	No No	No No	No I	No	Yes
vendor-supplied software	140	140			
Software pricing	_	-	-	-	Std.
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation	1920 24 x 80 7.5 x 9.5 94; 64 opt. 5 x 9 dot matrix	1920 24 x 80 9.4 x 11.9 95 5 x 9 dot matrix	2688 40 x 52; 32 x 84 7.5 x 9.5 64 Stroke	2688 40 x 52; 32 x 84 7.5 x 9.5 64 Stroke	960/1920 12/24 x 80 7.5 x 9.5 64; 96 opt. 5 x 7 dot matrix
·	o x o docinatio	o x o doc mau	•		
DISPLAY FEATURES Color	No	No	No	No	No
Reverse video	Opt.	No	No I	No	No
Programmable brightness levels	No	No	2 std.	3 std.	No
Character and/or field blinking	No	No	Std.	Std.	Opt.
	11	llm add	No.	No	Opt.
Roll Paging	Up std. No	Up std. No	No No	No	Opt.
CURSOR CONTROL					
Cursor positioning, Up, Down, Left,	U, D, L, R, H, Rt.	D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, I
Right, Home, Return Cursor blinking	0-4		la	Std.	Std.
	Opt.	No No	Std.		Std.
	Std. addressable	No No	Std.	Std.	Std.
Addressable/readable cursor					Std.
Addressable/readable cursor	Std. addressable	No No	Std.	Std.	Opt.
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard	Std. addressable only No Std.	No No No	Std. Std. Std.	Std. Std. Std.	Opt. Opt.
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard	Std. addressable only	No No No No	Std. Std. Std. Std.	Std. Std. Std. Std.	Opt. Opt. Opt.
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage	Std. addressable only No Std. —	No No No No No	Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt.
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit	Std. addressable only No Std.	No No No No	Std. Std. Std. Std.	Std. Std. Std. Std.	Opt. Opt. Opt.
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation	Std. addressable only No Std. Std No	No No No No No No	Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Opt.
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS	Std. addressable only No Std. Std No Opt.	No No No No No Opt.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Opt. Std.
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert	Std. addressable only No Std. Std No Opt.	No No No No No Opt.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Opt. Std.
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert Line insert/delete	Std. addressable only No Std. Std No Opt.	No No No No No Opt. No	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Std. Opt.
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert Line insert/delete Character erase	Std. addressable only No Std. Std. — No Opt. No Std. Std. Std. — No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No Opt.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Std. Opt. Opt. Opt.
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert Line insert/delete Character erase Line erase	Std. addressable only No Std. Std No Opt. No Std. Std. Std. Std.	No No No No No Opt. No No No No No No No No No No No No No	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Std. Opt.
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert Line insert/delete Character erase Line erase Screen erase	Std. addressable only No Std. Std. — No Opt. No Std. Std. Std. — No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No Opt.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Std. Opt. Opt. Opt. Opt. Opt. Opt. Opt. Opt
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert Line insert/delete Character erase Line erase Screen erase Character repeat	Std. addressable only No Std. Std No Opt. No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No Opt. No No No Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Std. Opt. Opt. Opt. Opt. Opt. Opt. Opt. Op
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert Line insert/delete Character erase Line erase Screen erase Character repeat CEYBOARD PARAMETERS	Std. addressable only No Std. Std No Opt. No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No Opt. No No No Std. Std.	Std. Std. Std. Std. Std. Std. Std. No Std. No Std. No Std. Typewriter/data	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Std. Opt. Opt. Opt. Opt. Opt. Opt. Opt. Std. Typewriter/dat
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert Line insert/delete Character erase Line erase Screen erase Character repeat EYBOARD PARAMETERS Style	Std. addressable only No Std. Std	No No No No No No No Opt. No No Std. Std. Typewriter	Std. Std. Std. Std. Std. Std. Std. No Std. No Std. No Typewriter/data	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Std. Opt. Opt. Opt. Opt. Opt. Opt. Std. Typewriter/dar entry
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert Line insert/delete Character erase Line erase Screen erase Character repeat CEYBOARD PARAMETERS Style Character/code set	Std. addressable only No Std. Std	No No No No No Opt. No No No Std. Typewriter ASCII/APL	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Std. Opt. Opt. Opt. Opt. Opt. Opt. Std. Typewriter/datentry ASCII
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation DIT FUNCTIONS Character insert Line insert/delete Character erase Line erase Screen erase Character repeat CEYBOARD PARAMETERS Style Character/code set Detachability	Std. addressable only No Std. Std No Opt. No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No Opt. No No No Std. Std. Typewriter ASCII/APL Opt.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Std. Opt. Opt. Opt. Opt. Opt. Opt. Opt. Op
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert Line insert/delete Character erase Line erase Screen erase Character repeat (EYBOARD PARAMETERS Style Character/code set Detachability Program function keys	Std. addressable only No Std. Std	No No No No No No No No No Std. Std. Typewriter ASCII/APL Opt. No	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Opt. Opt. Opt. Opt.
Addressable/readable cursor CORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert Line insert/delete Character erase Line erase Screen erase Character repeat CEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Cursor control keys	Std. addressable only No Std. Std No Opt. No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No No No No No No No Std. Typewriter ASCII/APL Opt. No So Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Std. Opt. Opt. Opt. Opt. Opt. Opt. Std. Typewriter/datentry ASCII Std. Std. Std. 6 std.
Addressable/readable cursor ORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert Line insert/delete Character erase Line erase Screen erase Character repeat (EYBOARD PARAMETERS Style Character/code set Detachability Program function keys Cursor control keys Edit function keys	Std. addressable only No Std. Std. Std. Opt. No Opt. No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No No No No No No Std. Std. Typewriter ASCII/APL Opt. No 5 std. 2 std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Opt. Opt. Opt. Opt.
Addressable/readable cursor CORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation EDIT FUNCTIONS Character insert Line insert/delete Character erase Line erase Screen erase Character repeat CEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Cursor control keys	Std. addressable only No Std. Std No Opt. No Std. Std. Std. Std. Std. Std. Std. Std.	No No No No No No No No No No No No Std. Typewriter ASCII/APL Opt. No So Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Std. Std. Std. Std. Std. Std. Std. Std.	Opt. Opt. Opt. Opt. Std. Opt. Opt. Opt. Opt. Opt. Opt. Std. Typewriter/dat entry ASCII Std. Std. Std. 6 std. 7 opt.

Part 2:

Operator Features
Ancillary Features
Transmission Parameters

Transmission Features Terminal Interface Line Interface

VENDOR AND MODEL	Research, Inc. Teleray Model 3811	Research, Inc. Teleray Model 3931	Sanders Data Systems 620 & 622 Data Display Systems	Sanders Data Systems 720 Data Display System	Sanders Data Systems 804 System
OPERATOR FEATURES					
Numeric keylock	No		-		_
Audible alarm Keylock	Std. No	Opt.	No —	No —	Opt. —
Operator I.D. card reader Light pen	No No	No No	No No	No Opt.	No Opt.
ANCILLARY DEVICES		i			
Cassette tape drive	No	No	No	No	Dual
Diskette drive (floppy disk)	No	No	No	No	No
Serial printer Print speed & print positions, cps	Impact 30 cps @ 96	RS-232 interface	Impact	Impact -	Impact
Other devices	TV monitor	TV monitor	None	None	Card reader
TRANSMISSION PARAMETERS Mode Technique Communications protocol Code Unit code structure, bits/char. Speed, bits/second Operator selectable speeds Format: character, line, or block	Half/full-duplex Asynchronous Teletype ASCII 10/11 75 to 9600 Std. Char. only	Half/full-duplex Asynchronous ASCII ASCII 10/11 75 to 9600 — Char, only	Half-duplex Async./sync. ASCII ASCII 8/10 110 to 2400 — Char./block	Half-duplex Async./sync. ASCII ASCII 8/10 110 to 9600 — Char./block	Half/full-duplex Async./sync. ASCII/BSC ASCII/EBCDIC 8/10 110 to 9600 — Char./block
	G,	,			
TRANSMISSION FEATURES Multipoint operation (pollable/addr.)	No	No	Std.	Std.	Opt.
Auto answer	No	No	No	No	Opt.
Auto call	No	No	No	No	No
TERMINAL INTERFACE	RS-232C, 20 ma dc, TTL	RS-232C, 20 ma dc, TTL	RS-232C	RS-232C	RS-232C
LINE INTERFACE External modem required Integral modem Integral acoustic coupler Vendor-supplied external modem	Opt. Opt. No Opt.	Opt. Opt. Opt. Opt.	Yes No Opt. No	Yes No No No	Yes Opt. No No
DIAGNOSTICS					
Self diagnostics	No	No	No	No	No
In line On line	No Yes	No No	No No	No No	No No
Off line	Yes	No	No	No	No
PRICING (price range shows cost of basic unit and unit with all options) Lease price including maintenance: Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo.	71-73 67-69 60-62	87 83 —	200-220 120-175	100-131 65	213 - 194
Serial printer, 1 year lease, \$/mo.	-	_	-	-	
Serial printer, 2 year lease, \$/mo.	_	_	-	-	
Serial printer, 3 year lease, \$/mo. Controller, 1 year lease, \$/mo.	_	_	-	_ 228-284	_
Controller, 2 year lease, \$/mo.	_	-	-	-	
Controller, 3 year lease, \$/mo. Purchase price:	_	_	_	415	_
Display station, \$	1,490-1,550	2,100	5,900-6,100	3,177-3,277	5,630
Serial printer, \$	1,800	_	-	 7,088-18,000	_ _
Controller, \$ Software, \$	_		-	- 10,000 - 10,000	_
Quantity discounts available	Yes	Yes	-	-	_
AVAILABILITY Date of first production delivery Display units installed to date Serviced by No. of service locations	5/76 Western Union 40	3/75 Over 300 Western Union	1968/1970(622) Over 1,500 Sanders	1966 Over 5, 000 Sanders —	12/71 Over 1,000 Sanders
COMMENTS		20 ma. current loop and TTL logic interfaces also available			

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

TERMINAL DESCRIPTION Processor fortrol Minicomputer Minico	lecterm DS 980
Memory range, bytes AK-28K SR-28K 12-32K 1920	
Stand-alone unit	
Ves	
Remote cluster arrangement Yes Yes Yes Yes No No No No No No No N	
Max. no. of displays/controller Max. no. of printers/controller a Max. no. of devices/controller and max. no. of printers/controller and no. of printers/controller and no. of printers. no. of printers and no. of printers. no. of printers and no. of printers. no. of pr	
Max. no. of devices/controller	
Any mix of screen sizes/controller	
Computer interface	
No	
IBM 2270/3275 Opt. No Opt. No Opt. No Opt. No Opt. No No No No No No No No No No No No No	
IBM 2260/2265	
Teletype 33/35	
Teletype 40	
ROGRAMMABILITY	
Programmable via: User-created programs User-defined parameters No No No Yes Yes No No No No No No No N	
User-defined parameters	
User-defined parameters	
Vendor-defined firmware Vendor-supplied software Vendor-supplied Vendor-supplied software Vendor-supplied software Vendor-supplied software Vendor-supplied software Vendor-supplied software Vendor-supplied software Vendor-supplied software Ve	
Ves	
Software pricing	
1920 1920	
DISPLAY ORGANIZATION	
Display positions, chars./display Display arrangement, lines x chars./line Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation To x y = 0.5	
Display arrangement, lines x chars./line 40/64/80 x 12/24 7.5 x 9.5 7.2 x 9.5 7.	
Display area, h x w, inches Total displayable symbols Symbol formation Total displayable symbols Symbol formation Sx 7 dot matrix Sx 8 x 10 x 10 x 10 x 10 x 10 x 10 x 10 x	,
Total displayable symbols Symbol formation 64; 96 opt. 5 x 7 dot matrix 64; 96 opt. 5 x 7 dot matrix 7 x 9 dot matrix 64; 95 opt. 5 x 7 dot matrix 96 5 x 7 dot matrix 128 7 x 9 dot matrix 8 x 7 dot matrix 8 x 7 dot matrix 128 7 x 9 dot matrix 128 128 12 x 12 1	•
DISPLAY FEATURES Color Reverse video Programmable brightness levels No No No No No No No No No No No No No	
Color Reverse video No No No No No No No No No No No No No	ot matri
Color Reverse video No No No No No No No No No No No No No	
Programmable brightness levels Character and/or field blinking Roll Paging Std. Std. Std. No Std. Std. No Std. Std. No Std. Std. No Std. Std. No Std. Std. No Std. Std. No Std. Std. No Std. Std. No Std. Std. No Std. Std. No Std. Std. No Std. S	
Character and/or field blinking Std. Field std. Std. No Std. No Std. No Std. No Std. No Std. No Std. No Std. No Std. Paging CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Std.	
Roll Paging Std. — Std. — No Up std. Single page No CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation CURSOR CONTROL Protected format Opt. Std. Std. Std. Std. Std. Opt. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Std.	
Paging	
Cursor positioning; Up, Down, Left, Right, Home, Return U, D, L, R, H, Rt. Std. Std. Std. Std.	
Cursor positioning; Up, Down, Left, Right, Home, Return U, D, L, R, H, Rt. Std. Std. Std. Std.	
Right, Home, Return Cursor blinking Addressable/readable cursor Std. Std. Std. Std. Std. Std. Std. Std.	., R, H
Std. Std.	
ORMAT CONTROL Protected format Opt. Std.	
Protected format	idressab
Format creation via keyboard Opt. Std.	
Format editing via keyboard	
Format storage	
Partial screen transmit Tabulation Opt. Std. Std. Std. Std. Std. Std. Std. St	
DIT FUNCTIONS Character insert/delete Character unsert/delete Opt. No Opt. Std. Std. Std. Std. Std. Std. Std. St	
Character insert/delete Opt. No Std. Std. Std. Std. Line insert/delete Opt. No Opt. Std. Std. Std. Std. Std.	
Character insert/delete Opt. No Std. Std. Std. Std. Line insert/delete Opt. No Opt. Std. Std. Std. Std. Std.	
Character erase Std. No Std. Std. Std. Std. Std. No	
Line erase Std. No Std. Std. No Std. Std. Std.	
Character repeat Std. Std. Std. Std. Std. Std.	
SEYBOARD PARAMETERS Typewriter/data Typewriter/data Teletype/	
Style entry Typewriter entry/others key punch Typewriter	riter
Character/code set ASCII ASCII EBCDIC ASCII ASCII	
Detachability Opt. Opt. Std. No No	
Program function keys Std. 13 std. 21 - Opt.	
Cursor control keys 6 std. 6 std. 7 std., 8 opt. 5 std. 5 std. 5 std. 6 std. 8 opt. 5 std. 8 std. 8 std.	
Edit function keys 4 std., 4 opt. 1 std. 6 std., 8 opt. 5 std. 8 std. Numeric keypad Std. Std. Std. Std. 11 std. Std.	
Total State	

Part 2:

Operator Features Ancillary Features

Transmission Parameters

Transmission Features Terminal Interface Line Interface

VENDOR AND MODEL	Lear Siegler ADM-3A	Megadata SiR-1000 C-4/8	Megadata SiR-1000/WP	Megadata System 700	Megadata Sir-1000 U & Sir-1075/77
OPERATOR FEATURES		 			
Numeric keylock	No	Opt.	Opt.	Opt.	Opt.
Audible alarm Keylock	Std. Std.	Std. Std.	Std.	Std. Std.	Std. Std.
Operator I.D. card reader	No.	Opt.	Opt.	Opt.	Opt.
Light pen	None	No	No	Opt.	Opt.
ANCILLARY DEVICES	 N _	Cinala (dual	Cia ala (dual	Cincello de al	
Cassette tape drive Diskette drive (floppy disk)	No No	Single/dual Single/dual	Single/dual Single/dual	Single.dual Single/dual	Opt. Single/dual
Serial printer	No	Impact	Impact	Impact/non-impact	Impact
Print speeds & positions, cps	<u>-</u>	_	_	10 cps	120-300 lpm
Other devices	None	Card reader and paper tape punch	Card reader and paper tape punch	Magnetic tape and disk drives and	Card reader and others
TRANSMISSION PARAMETERS				line printers	
Mode	Half/full-duplex	Half-duplex	Half/full-duplex	Half/full-duplex	Half-duplex
Technique Communications protocol	Asynchronous ASCII	Asynchronous ASCII	Asynchronous ASCII	Async./sync. ASCII/BSC/SDLC	Asynchronous ASCII
Code	ASCII	ASCII	ASCII	ASCII/BSC/SDLC	ASCII, BSC
Unit code structure, bits/char.	10/11	10	10	5 to 11	10
Speed, bits/second	110 to 19,200	Up to 19,200	Up to 13,000 cps	75-9600	Up to 19,200
Operator selectable speeds Format: character, line, or block	11 std. Char./block	8 std. Char./block	8 std. Char./block	8 std. Char./block	8 std. Char./block
, ,	Cital./ block	Griat./ block	Cital./ BIOCK	GHai./ DIOCK	GHAL./ DIOCK
TRANSMISSION FEATURES Multipoint operation (pollable/addr.)	No	Std.	Std.	Std.	Std.
Auto answer	Opt.	Opt.	Opt.	Opt.	Opt.
Auto call	No	-	-	Opt.	No
TERMINAL INTERFACE	RS-232C, current loop	RS-232C	RS-232C	RS-232C, CCITT V.24 20/60 ma	RS-232C
LINE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	Yes
Integral modem	No	Opt.	Opt.	Opt.	Opt.
Integral acoustic coupler	No	Opt.	Opt.	Opt.	Opt.
Vendor-supplied external modem	No	Opt.	Opt.	Opt.	No
DIAGNOSTICS Self diagnostics	No	No	No	Yes	No
In line	No	No	No	Yes	No No
On line	No	Yes	Yes	Yes	Yes
Off line	No	No	No	Yes	No
PRICING (Price range shows cost of basic unit and unit with all options) Lease price including maintenance:		Third was below	T 1.5.4 1		
Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo.		Third party lease	Third party lease	Third party lease	Third party lease
Display station, 3 year lease, \$/mo.	<u></u>	_	L		
Serial printer, 1 year lease, \$/mo.	 -		 - -	-	
Serial printer, 2 year lease, \$/mo.	-	_	-	_	
Serial printer, 3 year lease, \$/mo.	-	-	<u> </u>	_	
Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo.					
Controller, 3 year lease, \$/mo.	 -		<u> </u>	_	_
Purchase price:					
Display station, \$ Serial printer, \$	1,095	5,000-7,500	7,500 (base)	2,950-12,000	4,500-7,500
Controller. \$		2,000-8,000	2,000-8,000	5,000 6,400-9,400	2,000-8,000 2,100 (multiplexer)
Software, \$	_	<u> </u>	<u>_</u>	2,500-8,000	- (multiplexer)
Quantity discounts available	Yes	Yes, with 10 or more	Yes, with 10 or more	Yes, with 10 or more	Yes
AVAILABILITY Date of first production delivery	1 /76		1		12/72
Date of first production delivery Display units installed to date	1/76 See comments	1973 Over 500	12/74 Over 100	2/76 300	12/73 Over 200
Serviced by	Lier Siegler	Megadata and third	Megadata and third	Megadata and third	Megadata and third
No. of service locations	_	party —	party —	party —	party —
COMMENTS	The ADM-3A is also available in a kit version		Designed for text editing (word pro- cessing)	Microprocessor- based terminal with 4K to 73K bytes of memory; uses DEC assembly language	Sir-1000 replaces UNIVAC's Uni- scope; Sir 1075/77 IBM's 3270. De- signed for text editing; cluster arrangement via or
				rai iyuaye	

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

Microprocessor Yes No	VENDOR AND MODEL	Memorex 1377-4	Mohawk MDS Series 21	NCR 796 Series Models 101, 201, 301 & 401	Olivetti DE-520	Olivetti TCV 270
Mannory range, bytes	TERMINAL DESCRIPTION					
Stand-allone unit	Processor control	Microprocessor		No	Yes	Microprocessor
Local cluster arrangement	Memory range, bytes		32K-64K		4K to 16K	
Yes	Stand-alone unit	No	Yes	Yes	Yes	Yes
Yes	Local cluster arrangement	Yes	Yes	No		
Max. no. of displays/controller	Remote cluster arrangement	Yes	Yes	No		
Max. no. of printers/controller	Max. no. of displays/controller			_	_	
Max. no. of devices/controller	Max. no. of printers/controller		11	1-	14	
Amy mix of screen sizes/controller — No No Yes Computer Interface Sizes — No No No No No No No No No No No No No	Max. no. of devices/controller	1-				
Page Page	Any mix of screen sizes/controller	1—	l —	1_		
No		1_	Yes	NCR Century		
Std. Yes No No No Std. Yes No No No Std. Yes No No No Std. Yes No No No Std. Yes No No Std. Yes No No Std. Yes No No Std. Yes Ye		No				
Mode					<u> </u>	1
Mode	BM 3270/3275	Std.	Yes	No	No	Std.
Teletype 40	IBM 2260/2265	No	Yes	No		
Teletype 40	Teletype 33/35	No	No			
No						
No			_	_	Univac (DCT 2000);	
Vendor-defined firmware					, and the second	Yes
Vendor-defined firmware			Yes		Yes	Yes
User-defined firmware Ves	Vendor-defined firmware	No				
Ves Ves		No				
ISPLAY ORGANIZATION Display positions, chars./display Display positions, chars./display Box 24 12x 40/24 x 80 12x 480 11x 31 12 x 40, 24 x 80 12x inch-diag. 64; 96 64; 96						
ISPLAY ORGANIZATION Display positions, chars./display Display positions, chars./display Box 24 12x 40/24 x 80 12x 480 11x 31 12 x 40, 24 x 80 12x inch-diag. 64; 96 64; 96	Software prining				Cut	Cont
Display positions, chars./display 1920		-	_	_	Sta.	Sta.
Display arrangement, lines x chars./line Sox 24 12x 40/24 x 80 24 x 80 31 x 31 12 x 40/24 x 80 24 x 80 31 x 31 12 x 40/24 x 80 32 x 80 31 x 31 12 x 40/24 x 80 32 x 80 31 x 31 12 x 40/24 x 80 32		1			1	
Display area, h x w, inches 7 x 9.5 89 89 64, 96 64, 9			480 or 1920	1920	341	480; 1920
Total displayable symbols Symbol formation Sy			12x 40/24 x 80		11 x 31	12 x 40; 24 x 80
Total displayable symbols Symbol formation Sx 7 dot matrix		7 x 9.5	-	8 x 10	4.75 x 5.5	12-inch-diag.
SPLAY FEATURES Color Reverse video Std. Yes No				64; 96 (401)	64; 96	64; 96
No No No No No No No No	Symbol formation	7 x 9 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix
No No No No No No No No	ISPI AV FEATURES					
No		No	INO	INO.	No.	No
Programmable brightness levels 2 std. Std. Std. Std. 2 std., 201,301,401 Std. 2 std. Yes Std. Std. Std. Std. Yes Std.					INO	
No			1.63			
Roll			Cad			
Paging	Character and/or neid billiking	INO	Sta.	Sta., 201,301,401	Char. std.	Yes
U. D. L. R. H. D. D. L. R. H. Rt. U. D. D. L. R. H. Rt. U. D. D. L. R. H. Rt. U. D. D. L. R. H. Rt. U. D. D. L. R. H. Rt. U. D. D. L. R. H. Rt. U. D. D. L. R. H. Rt. U. D. D. L. R. H. Rt. U. D. D. L. R. H. Rt. U. D. D. L. R. H. Rt. U. D. D. L. R. H. Rt. U. D. D. L. R. H. Rt. U. D. D. L. R. H. Rt. U. D. D. D. L. R. H. Rt. U. D. D. D. L. R. Rt. U. D. D. D. D. L. Rt. U. D. D. D. L. Rt. U. D. D. D. D. L. Rt. U. D. D. D. D. D. L. Rt. U. D. D. D. D. D. D. D. D. D. D. D. D. D.	Roll	No	No	Std.	No	No
Descriptioning	Paging	No	No		Yes	
Right, Home, Return Cursor blinking No						
No		U, D, L, R	-	U, D, L, R, H	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.
Addressable/readable cursor Std.		l No	lves	Opt 101 oply	احبم	lou
Std. Std.			1.69			
Std.	Todi Coodine / Teauable Cul SUI	Join.		Siu.	Old.	Std.
No			1			
No		Std.	I	Std.; 201,301,401	Std.	Std.
No			I	Std.; 201,301,401	Std.	Std.
Std. Std.	Format editing via keyboard	No	I	Std.; 201,301,401		Std.
Std. Std.	ormat storage	Std.	1-	Std.; 201,301,401		
Typewriter Cabulation No Std. Std. Yes Yes		Std.	I			
Character insert/delete	「abulation	No		Std.		
Std. Std.	OIT FUNCTIONS	1				
No		C+4	ı	Std . 201 8 201	No.	lc
Std.			I			
ine erase Std. — No Std. No Std. No Std. Std. Std. Std. Std. Std. Std. Std.			1-			
Std. Std. Std. Std. Std. Std. Std. Std.		I Std.	1-			
Character repeat Some keys Typewriter/data entry console entry EBCDIC Peragram function keys Typewriter/data entry console entry EBCDIC Std. Typewriter/data entry EBCDIC Yes No No Opt. Std. Typewriter/data entry ASCII/EBCDIC Std. No Opt. 12 opt. 6 std. 6 std. 4 std. 5 std.		I Std.	1			
Typewriter/data entry console entry console entry console entry en						
Style entry console entry Character/code set EBCDIC EBCDIC ASCII ASCII/EBCDIC ASCII	·		T	1		1
Character/code set				Typewriter		
Detachability			IEBCDIC			
Program function keys 12 std. — — Opt. 12 opt. Cursor control keys 7 std. — 5 std. 6 std. 6 std. 6 std. Edit function keys 5 std. — 6 std. 4 std. 5 std.						
Cursor control keys 7 std. — 5 std. 6 std. 6 std. 6 std. 5 std. Edit function keys 5 std. — 6 std. 4 std. 5 std.			res	INO		
Edit function keys 5 std. — 6 std. 4 std. 5 std.			1	J =	Opt.	
			1-		o std.	
Opt. Opt. Std. No Opt.			l			
	иненс кеурац	Upt.	Opt.	Std.	NO	Opt.
1 1 1						
			1	1		

Part 2:

Operator Features Ancillary Features Transmission Parameters Line Interface

Transmission Features **Terminal Interface**

VENDOR AND MODEL	Sanders Data Systems 810 System	Sanders Data Systems 8100 System	Sanders Data Systems 8170/8180 8210/8220/8770	Scientific Measurement Systems SMS 1920	Selecterm ADDS 980
OPERATOR FEATURES		}			
Numeric keylock	<u> </u> _	_	Std.	No	_
Audible alarm	Opt.	Std.	Std.	No	Std.
Keylock	No	-	Opt.	No	l .
Operator I.D. card reader Light pen	No	No No	Opt. Opt.	No None	No No
ANCILLARY DEVICES					İ
Cassette tape drive	Dual	No	No	Single	Single
Diskette drive (floppy disk)	No	No	Opt. dual	Single	No
Serial printer	Impact	Impact	Impact	Impact	RS-232 interface
Print speed & print positions, cps Other devices	Card reader, disk	Card reader, disk	30-165cps/2001pm Card reader, disk	None	None
out devices	drives	drives	drive	140116	140116
TRANSMISSION PARAMETERS					
Mode	Half/full-duplex	Half-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Technique	Async./sync.	Synchronous	Async./sync.	Async./sync. opt.	Asynchronous
Communications protocol Code	ASCII/BSC ASCII/EBCDIC	BSC EBCDIC	BSC/SNA/SDLC EBCDIC/ASCII	SDLC ASCII	ASCII ASCII
Unit code structure, bits/char.	8/10/11	8	8	10/11	10/11
Speed, bits/second	110 to 9600	2400	300 to 9600 bps	50 to 19,200	110 to 9600
Operator selectable speeds		<u> - </u>	No //	50 to 19,200	
Format: character, line, or block	Char./block	Block only	Char./block	Char./block	Char./block
TRANSMISSION FEATURES					
Multipoint operation (pollable/addr.)	Opt.	No	Std.	No	No
Auto answer Auto call	Opt. No	Opt. No	Opt. No	No No	No No
		1			
TERMINAL INTERFACE	RS-232C	RS-232C	RS-232C, CCITT MIL 188 B/C	RS-232C 20 ma	RS-232C, 20 ma
LINE INTERFACE		1	1		
External modem required Integral modem	Yes No	Yes No	Yes No	Yes No	Yes No
Integral acoustic coupler	No	No	No	No	Opt.
Vendor-supplied external modem	No	No	No	No	No
DIAGNOSTICS					
Self diagnostics	No	No	Yes	No	No
In line On line	No	No	Yes	No	No
Off line	No No	No No	Yes Yes	No Yes	No No
DDICING /mins non-state	Ì				
PRICING (price range shows cost of basic unit and unit with all options)					
Lease price including maintenance:					
Display station, 1 year lease, \$/mo.	69	Contact vendor	101	132	88
Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo.	63	_	92	94	_
Serial printer, 1 year lease, \$/mo.	-	_	158	_	_
Serial printer, 2 year lease, \$/mo.	-	_	-	_	-
Serial printer, 3 year lease, \$/mo. Controller, 1 year lease, \$/mo.	189	-	146 210	_	_
Controller, 2 year lease, \$/mo.	-	_		-	_
Controller, 3 year lease, \$/mo. Purchase price:	174	_	191	_	_
Display station, \$	1,475	Contact vendor	3,090	2,245	1,895
Serial printer, \$	l- [']	i —	3,425	_	_
Controller, \$	6,900		8,600	_	-
Software, \$ Quantity discounts available	_	_	Yes	_	_
•	1				
AVAILABILITY Date of first production delivery	1/73	4/73	1974/1976	9/74	9/73
Display units installed to date	Over 400	Over 30	2,500	100	1,500
Serviced by	Sanders	Sanders	Sanders	SMS	Selecterm
No. of service locations	50	50	50	_	_
COMMENTS			8180 provides	Mfd. by Applied	Mfd. by Applied
- · · · - · · · ·			more functions	Digital Data Sys-	Digital Data Sys-
	1		than 3270; 8210	tems as Consul	tems as Consul
	1		emulates UNIVAC 100/200; 8220,	580	980
			Burroughs TD-800;		
			8770, Honeywell		
	1		775, 7700		
	1	1	1		
	1	1	1		l

${\bf Alphanumeric\ Display\ Terminals-Equipment\ Specifications}$

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Singer Models 80, 81 & 82	Sycor 255	Sycor 257	Sycor 340	TEC, Inc. Models 410/415 & 420/425
FERMINAL DESCRIPTION	Missanasasas	Missonsos	Microprocessor	Microprocessor	No
Processor control Memory range, bytes	Microprocessor	Microprocessor 	Microprocessor 	1K – 7K	_
Stand-alone unit	Yes	Yes	No	Yes	Yes
Local cluster arrangement	No	No	No	No	No
Remote cluster arrangement	No	No	Yes	No	No
Max. no. of displays/controller Max. no. of printers/controller	_ _		32 32	_	_
Max. no. of devices/controller	_	_	32	_	_
Any mix of screen sizes/controller	- - -	_	Yes	_	_
Computer Interface		_	No		
Portable case	No	No	No	No	No
OMPATIBILITY					
IBM 3270/3275	No	Std.	Std.	No	No
IBM 2260/2265	No	No	No	No	No
Teletype 33/35	No	No	No	Opt.	No
Teletype 40 Other	No No	No No	No No	No No	No No
Other	NO	110	140	140	140
ROGRAMMABILITY					
ROGRAMMABILITY Programmable via:					
User-created programs	No	No	No	No	No
User-defined parameters	No	No	No	No	No
Vendor-defined firmware	Yes	Yes	Yes	Yes	No
User-defined firmware	No	No No	No No	No No	No
Vendor-supplied software	No	NO	140	No	140
Software pricing	-	_	-	_	_
ISPLAY ORGANIZATION					
Display positions, chars./display	1600(80); 960/1920	480/1920	480/1920	578	1000/1920
Display arrangement, lines x chars./line		12×40; 24×80	12x40; 24x80	9 x 64	20x50; 24x80
Display area, h x w, inches	5.5x8 (81, 82)	4.5×8.2; 5.8×8.5	4.5x8.2; 5.8x8.5	7.75 × 5.5	74 sq. in.
Total displayable symbols Symbol formation	64 7x9 dot matrix	64; 96 opt. 9x7 dot matrix	64; 96 opt. 9x7 dot matrix	62 5x7 dot matrix	67 5x7 dot matrix
Symbol formation	7x9 dot matrix	3X7 GOLINALIX	9x7 dot matrix	5x7 docinatiix	3x7 docinatiix
ISPLAY FEATURES					
Color	No	No	No	No	No
Reverse video Programmable brightness levels	No No	No 3 std.	No 3 std.	No No	No No
Character and/or field blinking	No	Field std.	Field std.	No	Std.
-					
Roll Paging	Up std. Yes	No No	No No	Up opt. No	Std. No
raging	163	140	NO	140	140
URSOR CONTROL					
Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, B, H, Rt.	U, D, L, R, H, R
Right, Home, Return Cursor blinking	Std.	Std.	Std.	Std.	Std.
Addressable/readable cursor	Std.	Std.	Std.	No	Std.
	o.u.	o ta.	J. Call		
ORMAT CONTROL					
Protected format Format creation via keyboard	Std. Std.	Std. Std.	Std. Std.	Std. Std.	Std. Std.
Format creation via keyboard Format editing via keyboard	Std. Std.	Std.	Std.	Std.	Std.
Format storage	Std.	Std.	Std.	Std.	Std.
Partial screen transmit	Std.	Std.	Std.	Std.	Std.
Tabulation	Std.	Std.	Std.	Std.	Std.
DIT FUNCTIONS					
Character insert/delete	Std.	Std.	Std.	No	Std.
Line insert/delete	Std.	No	No	No	Std.
Character erase Line erase	Std.	Std.	Std. No	Std.	No Std.
Line erase Screen erase	Std. Std.	No Std.	Std.	Std. Std.	Std.
Character repeat	Std.	Partial	Partial	No	Std.
EYBOARD PARAMETERS		Typewriter/data	Typewriter/data		
Style	Typewriter	entry	entry	Typewriter	Teletype
Character/code set	ASCII	ASCII/EBCDIC	ASCII/EBCDIC	ASCII/EBCDIC	ASCII
Detachability	Std., 81, 82	Std.	Std.	No	Std.
Program function keys	Up to 11	12 opt.	12 opt.	No	2 std.
Cursor control keys	6 std.	6 std.	6 std.	6 std.	6 std.
Edit function keys	8 std.	5 std.	5 std.	3 std.	7 std.
Numeric keypad	Std., 80; opt. 81/82	Opt.	Opt.	Std.	Opt.
	1	1	ı	1	i

Part 2:

Operator Features Ancillary Features Transmission Parameters Transmission Features Terminal Interface Line Interface

VENDOR AND MODEL	Memorex 1377-4	Mohawk MDS Series 21	NCR 796 Series Models 101, 201, 301 & 401	Olivetti DE-520	Olivetti TCV 270
OPERATOR FEATURES					
Numeric keylock Audible alarm	Std. Std.	_	 Std., 101: Opt., 201	No	Opt.
Keylock	Opt.		Sta., 101; Opt., 201	Std. No	Std. Opt.
Operator I.D. card reader Light pen	Opt. Opt.	_	No No	No No	Opt. Opt.
ANCILLARY DEVICES	1				
Cassette tape drive	No	No	No	Single/dual	No
Diskette drive (floppy disk) Serial printer	No No	Yes	No	Single/dual Impact	Dual
Print speed & positions, cps	INO	Yes 165 @ 132	Non-impact (NCR)	100 to 175 @132	Impact 100 to 175 @ 132
Other devices	None	Magnetic tape, cartridge disk	None	Card reader, mag- netic tape unit, paper	OCR reader
TRANSMISSION PARAMETERS				tape unit, OCR reader	
Mode	Half/full-duplex	_	Half/full-duplex	Full-duplex	Full-duplex
Technique Communications protocol	Synchronous SDLC; BSC	BSC/SDLC	Asynchronous ASCII	Async./sync. ASCII/BSC	Async./sync. ASCII/BSC
Code	ASCII/EBCDIC	EBCDIC	ASCII	ASCII/BSC ASCII/EBCDIC	ASCII/BSC ASCII/EBCDIC
Unit code structure, bits/char.	8	_	10/11	8/10/11	8/10/11
Speed, bits/second	1200-7200	600-9600	110 to 9600	110 to 4800	600 to 4800
Operator selectable speeds Format: character, line, or block	Block	_	Char./block	No Char./block	No Block only
TRANSMISSION FEATURES					,
Multipoint operation (pollable/addr.)	Std.	1-	Std., 301 only	Std.	Std.
Auto answer	No	-	No	Opt.	No
Auto cali	No	_	No	No	No
FERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C
LINE INTERFACE					
External modem required	Yes	-	No	Yes	Yes
Integral modem Integral acoustic coupler	No No		Std., 201 Opt., 201	No No	No No
Vendor-supplied external modem	Opt., IBM	_	No	Opt.	Opt.
DIAGNOSTICS					
Self diagnostics	No		No	Yes	Yes
In line	No	-	No	Yes	Yes
On line Off line	Yes No	_	No No	Yes Yes	Yes Yes
PRICING (Price range shows cost of basic unit and unit with all options) Lease price including maintenance: Display station, 1 year lease, \$/mo.	130-163	190	80-150	_	82-300
Display station, 2 year lease, \$/mo.	110-143	_	_	185-600	
Display station, 3 year lease, \$/mo. Serial printer, 1 year lease, \$/mo.	-	162	75 150	_	<u>-</u>
Serial printer 2 year lease \$/mo	_		75-150 70-130	126	126
Serial printer, 3 year lease, \$/mo.			1	_	_
Controller, 1 year lease, \$/mo.	-	-	 	_	82
Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo.	_	_		_	 3,090-12,500 3,800
Purchase price:		1			
Display station, \$	3,800-4,775	6,270	2,000-3,500	6,600-20,000	2,950
Serial printer, \$ Controller, \$		_	1,465-5,615	3,800	— No
Software, \$		_	_	_	_
Quantity discounts available	No	-	_	No	No
AVAILABILITY Date of first production delivery	5 /76	5 /77	1.774	2/71	10/74
Date of first production delivery Display units installed to date	5/76 Over 1.000	5/77	1 / 74 8.000 (all models)	2/71 20,500	10/74 16,000
Serviced by	Memorex	Mohawk	NCR	Olivetti	Olivetti
No. of service locations	53	1-	_		150
COMMENTS	Microprocessor- based replacement for IBM 3277-2 Display Unit; attaches to IBM controller	Prices include one display unit and controller with one diskette drive	Manufactured by ADDS as models 580 (101), 880 (201), and 880A (301)	Manufactured by Sycor, Inc.; uses Olivetti TPS assem- bler-type language	Options include 6K RAM, check digit verification, and arithmetic and logical operations; made by Sycor, Inc as Model 250
					do Model 200

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Olivetti TCV 278	Omron 8025 A	Omron 8030	Ontel OP-1	Perkin-Elme Fox-1100
TERMINAL DESCRIPTION	 				
Processor control	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Memory range, bytes	2K to 8K	Up to 16K	2K-65K	4K-64K	2K ROM; 2K RAN
Stand-alone unit	Yes	Yes	Yes	Yes	Yes
Local cluster arrangement	No	No	Yes	Yes	No
Remote cluster arrangement	Yes	No	No	Yes	No
Max. no. of displays/controller	124		_	14	_
Max. no. of printers/controller	23 24	1_	!	14	1
Max. no. of devices/controller	124		_	14	_
Any mix of screen sizes/controller	No		I_	No	
Computer Interface	No	No	No	No	No
Portable case	No	No	No	No	No
ONADATIDII ITV	1				1
COMPATIBILITY IBM 3270/3275	Std.	No	No	Yes	No
IBM 2260/2265	Std.	No	No	No	No
Teletype 33/35	No.	Std.	Std.	Std.	
Teletype 33/33	Yes	Sta.	Sia.		Std.
Teletype 40		1-	la	No .	1
Other	No	-	Burroughs & Univac	IBM 2780, Hazeltine 2000	No
DOCD AND A DULTO				l luzoitino 2000	
ROGRAMMABILITY Programmed via:				1	
User-created programs	Yes	No	Opt.	Yes	No
User-defined parameters	Yes	No	Yes	Yes	No
Vendor-defined firmware	Yes	Yes	Yes	Yes	Yes
User-defined firmware	Yes	Yes	Yes	Yes	No
Vendor-supplied software	Yes	163	Opt.	Yes	No No
venuor-supplied software	169	1	Opt.	169	1,40
Software pricing	Std.	-	_	Std.	-
ISPLAY ORGANIZATION	l .		1	l	
Display positions, chars./display	1920	1920	1920	1600/1920/2000	1920
Dsiplay arrangement, lines x chars./line	24 x 80	24 x 80	24 x 80	20/24/25 x 80	24 x 80
Display area, h x w, inches	12-inch diag.	l8 x 10	l8 x 10	7 x 10	12-inch-diag.
Total displayable symbols	64: 96	128; 224 opt.	128; 224 opt.	128/256	96 ASCII
Symbol formation	5 x 7 dot matrix	7 x 9 dot matrix	7 x 9 dot matrix	5 x 10/13 x 11	7 x 9 dot matrix
oymbol formation	To x 7 dot matrix	/ X o dot madrix	, x o dot matrix	dot matrix	/ X O dot matrix
DISPLAY FEATURES	1	Ì		Tuot matrix	
Color	No	No	No	No	No
Reverse video	No	Std.	Std.	Std.	Opt.
Programmable brightness levels	2 std.	2 std.	2 std.	2 std.	No
Character and/or field blinking	Yes	Field std.	Field std.	Both std.	No
Roll	No	Std.	Std.	Up & down std.	Up std.
Paging	No	Opt., 2 pages	Opt., up to 10 pages	-	No
CURSOR CONTROL					l
Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.
Right, Home, Return	10, 0, 2, 10, 11, 112	0, 0, 2, 11, 11, 11	0, 2, 1, 1, 1, 11	0, 5, 2, 11, 11, 11.	10, 0, 2, 11, 11, 11t.
Cursor blinking	Std.	Std.	Std.	Std.	Opt.
	Std.				Std. addressable
Addressable/readable cursor	Joiu.	Std.	Std.	Std.	only
ORMAT CONTROL	1		1	1	J'''''
Protected format	Std.	Std.	Std.	Std.	No
Format creation via keyboard	Std.	Std.	Std.	Std.	No
Format editing via keyboard	Std.	Std.	Std.	Std.	No No
Format storage	112	Std.	Opt. up to 9	Variable	No
Partial screen transmit	Std.	Std.	Std.	Std.	No
Tabulation	Yes	Std.	Std.	Std.	Std.
DIT FUNCTIONS	1	ł			1
Character insert/delete	Std.	Std.	Std.	Std.	No
Line insert/delete	No.	Delete std.	Std.	Std.	No
Character erase	Std.	Std.	Std. Std.	Std.	Std.
Line erase	No.	Std.	Std.	Std.	Std.
Screen erase	Std.	Std.	Std.	Std.	Std.
Character repeat	Std.	Std.	Std.	Std.	Std.
	1				
EYBOARD PARAMETERS	Typewriter/data	Typewriter/data	Typewriter/data	I	I
Style	entry	entry	entry	Teletype	Typewriter
Character/code set	ASCII/EBCDIC	128 ASCII	128 ASCII	ASCII	128 ASCII
Detachability	Std.	Opt.	No	Std.	No
Program function keys	12 opt.	16 std.; 48 opt.	128	38 std.	No
Cursor control keys	6 std.	6 std.	6 std.	5 std.	No
Edit function keys	5 std.	7 std.	7 std.	Programmable	No
Numeric keypad	Opt.	Std.	Std.	Std.	Opt.
Tamona Roypud	Topic	10.0.	15.00.	1	John.
					1
	1	i			1
				1	

Part 2:

Operator Features Ancillary Features Transmission Parameters Line Interface

Transmission Features Terminal Interface

VENDOR AND MODEL	Singer Models 80, 81, & 82	Sycor 255	Sycor 257	Sycor 340	Tec, Inc. Models 410/415 & 420/425
OPERATOR FEATURES					
Numeric keylock		Opt.	Opt.	No	No
Audible alarm Keylock	Std.	Std.	Std.	Std.	Std.
Operator I.D. card reader	No	Opt. Std.	Opt. Std.	No No	No No
Light pen	No	Opt.	Opt.	No	No
ANCILLARY DEVICES					
Cassette tape drive	No	No	No	Single/dual	No
Diskette drive (floppy disk) Serial printer	No Impact	Dual Impact	Dual	Dual	No
Print speed & print positions, cps		80/165 @ 132	Impact 80/165 @ 132	Impact 80/165 @ 132	RS-232 interface
Other devices	None	None	None	Card reader, line	None
				printers, 7-/9-tK.	
TRANSMISSION PARAMETERS				mag. tape units	
Mode Technique	Half/full-duplex	Half-duplex	Half-duplex	Half-duplex	Half/full-duplex
Communications protocol	Async./sync. Any	Synchronous BSC	Synchronous BSC	Async./sync. ASCII/BSC	Asynchronous ASCII
Code	ASCII	ASCII/EBCDIC	ASCII/EBCDIC	ASCII/EBCDIC	ASCII
Unit code structure, bits/char.	8/10	8	8	8/10	10
Speed, bits/second	Up to 9600	1200 to 4800	1200 to 4800	75 to 4800	110 to 9600
Operator selectable speeds	- "	No	No	No	l -
Format: character, line, or block	Char./block	Block only	Block only	Char./block	Block only
TRANSMISSION FEATURES Multipoint operation (pollable/addr.)	Opt.	Std.	Std.	No	Std.
Auto answer	Opt	No	No.	Opt.	No.
Auto call	No	No	No	Opt.	No
TERMINAL INTERFACE	RS-232C; 81 only	RS-232C	RS-232C	RS-232C opt.	RS-232C
LINE INTERFACE External modem required Integral modem Integral acoustic coupler Vendor-supplied external modem	Yes Opt. No	Yes No No	Yes No No	Yes No No No	No Std., 420/425 No No
DIAGNOSTICS					""
Self diagnostics	No	No	No	No	No
In line	No	No	No	No	No
On line	No	No	No	No	No
Off line	No	No	No	No	No
PRICING (price range shows cost of basic unit and unit with all options)					
Lease price including maintenance:					
Display station, 1 year lease, \$/mo.	139-289	98-110	76-96	150-593	_
Display station, 2 year lease, \$/mo.	-	93-104	72-91	123-536	-
Display station, 3 year lease, \$/mo. Serial printer, 1 year lease, \$/mo.	-	_	-		-
Serial printer, 1 year lease, \$/mo.	[_	_		_	<u> </u>
Serial printer, 3 year lease, \$/mo.	_	_		_	
Controller, 1 year lease, \$/mo.	-	-	80-96	-	-
Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo.	-	_	76-91	-	-
Purchase price:		_	_	_	-
Display station, \$	4,000-9,000	4,310-4,840	3,340-4,220	6,600-23,720	2,450-3,100
Serial printer, \$	-	_	<u> </u>	_	-
Controller, \$ Software, \$	-	- '	2,290-3,790	-	-
Quantity discounts available]_	_	<u> </u>		_
VAILABILITY					
Date of first production delivery	6/72 (80); 9/74	10/73	10/73	2/71	2/70
Display units installed to date	4,000	2,000	2,000	Over 30,000	2,785
Serviced by	Singer	Sycor & Sorbus	Sycor & Sorbus	Sycor & Sorbus	Tec
No. of service locations	-	_	-	-	_
COMMENTS	Models 81 & 82 are microprocessor-based with a vendor-programmable ROM. Up to 63 Model 81's can be chained on one modem.				Models 410/415 have parallel (TTL logic) interface; 420/425 have seri interface; rack- mounted units available
	63 Model 81's can				mounted units

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Tec, Inc. Model 440	Tec, Inc. Models 450/455 & 460/465	Tec, Inc. Models 1401, 1440, 2401 & 2402	Tec, Inc. Model 4400	Tektronix Model 4023
FERMINAL DESCRIPTION					
Processor control	No	No	No	Microprocessor	_
Memory range, bytes	 -	1=	H	Up to 28K	l
Stand-alone unit	Yes	Yes	Yes	Yes	Yes
Local cluster arrangement Remote cluster arrangement	No No	No No	No No	No No	No No
Max. no. of displays/controller	_	1100	140	_	_
Max. no. of printers/controller	_	1-	_	_	l -
Max. no. of devices/controller		-	-	-	-
Any mix of screen sizes/controller	-	1_	-	_	-
Computer Interface Portable case	No	No	No	No	No
COMPATIBILITY					
IBM 3270/3275	No	No	No	No	No
IBM 2260/2265	No	No	No	No	No Std.
Teletype 33/35 Teletype 40	Std. No	450/455 only No	Std. No	Std. No	No
Other	No	No	No	No	No
PROGRAMMABILITY					
Programmable via:	1	1	1		
User-created programs	No	No	No	No	No
User-defined parameters	No	No	No	No You	No
Vendor-defined firmware User-defined firmware	No No	No No	No No	Yes Opt.	_
Vendor-supplied software	No	No	No	No	No
Software pricing	_	_	_	_	-
DISPLAY ORGANIZATION					
Display positions, chars./display	1920	1000/1920	960 (1400) 1920	2000	1920
Display arrangement, lines x chars./line		20×50; 24×80	12/24 × 80	25 x 80	24 x 80
Display area, h x w, inches Total displayable symbols	74 sq. in. 64	67	54/74 sq. in. 64/96	128	4.5 x 8.5 96
Symbol formation	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix
DISPLAY FEATURES					
Color	No	No	No	No	No
Reverse video	No	No	No	Std.	Std.
Programmable brightness levels Character and/or field blinking	No No	No Std.	2 std;1401 & 240x Std., 1401 & 240x	2 std. Std.	5 std. Std.
Roll	Std.	Std.	Std.	Std.	Std.
Paging	-		_	_	_
CURSOR CONTROL Cursor positioning; Up, Down, Left,	Rt., LF, BS	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.;	U, D, L, R, H, Rt.	U, D, L, R, H, R
Right, Home, Return	n., Lr, 65	0, D, L, N, N, N	LF, BS (1440)	0, D, L, N, II, NL	0, 0, 2, 11, 11, 11
Cursor blinking	Std.	Std.	Std.	Std.	No
Addressable/readable cursor	No	Std.	Std., 1401 & 240x	Std.	Std.
ORMAT CONTROL	1		0+1 4404 5 5:5	Carl	Caul
Protected format Format creation via keyboard	No No	Std. Std.	Std., 1401 & 240x Std., 1401 & 240x	Std. Std.	Std. Std.
Format creation via keyboard	No	Std.	Std., 1401 & 240x	Std.	Std.
Format storage	No	Std.	Std., 1401 & 240x	Std.	Std.
Partial screen transmit	No	Std.	Std., 1401 & 240x	Std.	Std.
Tabulation	No	Std.	Std., 1401 & 240x	Std.	No
EDIT FUNCTIONS Character insert/delete	No	Std.	No	Std.	Std.
Line insert/delete	No	Std.	No	Std.	Std.
Character erase	Std.	No	No	No	No
Line erase	Std.	Std.	No	Std.	Std.
Screen erase Character repeat	Std. STd.	Std. Std.	Std. Std.	Std. Std.	Std. Std.
CEYBOARD PARAMETERS					
Style	Teletype	TTY/typewriter	Teletype	Typewriter	Typewriter
Character/code set	ASCII	ASCII	ASCII	ASCII	ASCII
Detachability	Std.	Std.	Std.	Std. None	Std. Std.
Program function keys	None	None 6 std.	None 8 std.	None 6 std.	6 std.
Cursor control keys					
Cursor control keys Edit function keys	3 std. 4 std.				7 std.
Cursor control keys Edit function keys Numeric keypad	4 std. None	7 std. Std., opt., 450/455	2 std.	7 std. Std.	7 std. Std.

Part 2:

Operator Features Ancillary Features

Transmission Parameters

Transmission Features Terminal Interface Line Interface

OFFRATOR EATURES No. No. Std.	VENDOR AND MODEL	Olivetti TCV 278	Omron 8025 A	Omron 8030	Ontel OP-1	Perkin-Elme Fox-1100
Numeric Revipcick Audible alarm Operator I D. card reader Operator I D. card reader Operator I D. card reader Operator I D. card reader Operator I D. card reader Operator I D. card reader Opt I No No No No No No No No No No No No No N	OPERATOR FEATURES		 	 	 	1
Communications protocol Communications p	Numeric keylock	Opt.	Std.	Std.	No	
Opin				Std.	Std.	
Light pen						
No						
No Disablet drive (plopp disk) Disablet drive (plopp disk) Serial printer Serial	ANCILLARY DEVICES					
Disablet drive (floppy disk) Sarial primate Final drive Final dr		No	No	No	1 to 4 drives	No
Print speed & positions, ops	Diskette drive (floppy disk)					
ORF reader		Impact	Impact/non-impact	RS-232 interface	Impact/non-impact	
Fall-duplex			1—	1=	I ==	
Mode Technique Agen.	Other devices	OCR reader	_	None	None	None
Mode Technique Agen.	FDANISMISSIONI DADAMETEDS					
Async./sync. Asyn		Full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-dunley
ASCII/BSC ASCI						
ASCII/EBCDIC ASCII/EDCII/EBCDIC ASCII/EBCDIC						
Speed, bits/second Dept 10 2400 Exercise Dept 10 2400 Exerci						
Operator selectable speeds Format character, line, or block Std. Chart/block Chart block Chart block Chart block Chart block Chart block Chart block						
Format character, line, or block Block Char./block						
RANSMISSION FEATURES Multipoint operation (pollable/addr.) No						
Multipoint operation (pollable/addr.) No No No Opt. O	romat: character, line, or block	BIOCK	Char./ DIOCK	Char./ plock	Char./ DIOCK	Char. only
Auto answer		Std	No	Opt	Ont	No
Auto call No						
A						
External modem required Integral modem Ves No No No Opt. No No Opt. No No No No No Opt. No No No No No No No N	FERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C, 20 ma	RS-232C, CCITT, or 20 ma dc
External modem required Integral modem Yes No No No Opt. No No Opt. No No No No No No No N	INF INTERFACE					
Integral modem No No No No No No No N		Vac	No	Voc	Voc	Voc
Integral acoustic coupler vendor-supplied external modem No						
Vendor-supplied external modem						
Self diagnostics Yes	Vendor-supplied external modem					
In line			}	1_		l
On line Off			_			
Off line PRICING (Price range shows cost of basic unit and unit with all options) Lease price including maintenance: Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 2 year lease, \$/mo. Serial printer, 1 year lease, \$/mo. Serial printer, 1 year lease, \$/mo. Serial printer, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Purchase price: Display station, 3 Display						
basic unit and unit with all options) Lease price including maintenance: Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Serial printer, 2 year lease, \$/mo. Serial printer, 2 year lease, \$/mo. Serial printer, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Display station, \$ Serial printer, \$ Controller, 4 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 8 year lease, \$/mo. Controller, 9 year lease,			_			
Lease price including maintenance: Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo. Display station, 3 year lease, \$/mo. Serial printer, 1 year lease, \$/mo. Serial printer, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Purchase price: Display station, \$ Serial printer,						
Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo. Display station, 3 year lease, \$/mo. Serial printer, 1 year lease, \$/mo. Serial printer, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Display station, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 4 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 7 year lease, \$/mo. Controller, 8 year lease, \$/mo. Controller, 9 year lease, \$/m						
Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo. Serial printer, 1 year lease, \$/mo. Serial printer, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Purchase price: Display station, \$ Serial printer, \$ Controller, 4 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 7 year lease, \$/mo. Controller, 9 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 5 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 6 year lease, \$/mo. Controller, 6 year lease, 8 year lease, 9 year lease, 6 year lease, 9 yea	Lease price including maintenance:	100 450	D	Durahana anti	Cald OFM ank	D
Display station, 3 year lease, \$/mo. Serial printer, 1 year lease, \$/mo. Serial printer, 2 year lease, \$/mo. Controller, 1 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, 3 year lease, \$/mo. Controller, \$ Controller, \$ Controller, \$ Serial printer, \$ Controller, \$ Serial printer, \$ Controller, \$ Software, \$ Controller, \$		100-450	Purchase only	Purchase only	Sold CEIVI ONLY	Purchase only
126	Display station, 3 year lease, \$/mo.		_	_	_	
Serial printer, 2 year lease, \$/mo.	Serial printer, 1 year lease, \$/mo.	126		1_		_
Controller, 3 year lease, \$/mo.	Serial printer, 2 year lease, \$/mo.	 	_		-	1-
Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo. Purchase price: Display station, \$ Serial printer, \$ Controller, \$ Software, \$ Quantity discounts available No Ves VALLABILITY Date of first production delivery Display units instaled to date Serviced by No. of service locations Includes integral controller capable of supporting 24 IBM 3277-type terminals COMMENTS Controller, \$ Software, \$ Controller, \$ Co		_	1-	-	1-	-
Controller, 3 year lease, \$/mo. Purchase price: Display station, \$ Serial printer, \$ Controller, \$ Serial printer, \$ Controller, \$ Software, \$ Quantity discounts available AVAILABILITY Date of first production delivery Display units instaled to date Serviced by No. of service locations Includes integral controller capable of supporting 24 IBM 3277-type terminals AVAILABILABILABILABILABILABILABILABILABILA	Controller, 1 year lease, \$/mo.	1-	1-	1-	1-	-
Purchase price: Display station, \$ Serial printer, \$ Controller, \$ Controller, \$ Cuantity discounts available No Ves VALLABILITY Date of first production delivery Display units instaled to date Serviced by No. of service locations Includes integral controller capable of supporting 24 IBM 3277-type terminals COMMENTS 6,140 2,400 (base) 3,550 — — — — — — — — — — — — — — — — — —	Controller 3 year lease, \$/mo.		1_			1_
Display station, \$ Serial printer, \$ Controller, \$ Software, \$ Quantity discounts available No Ves Ves Ves Ves Ves Ves 1,695-5,500 1,295 (base) 2,2995			1	1	1	1
Serial printer, \$ Controller, \$ Controller, \$ Software, \$ Quantity discounts available AVAILABILITY Date of first production delivery Display units instaled to date Serviced by No. of service locations Includes integral controller capable of supporting 24 IBM 3277-type terminals Serviced by Includes integral controller capable of RAM in 2K or 4K increments; software support, Diablo HyType 3,550 — — — — — — — — — — — — — — — — — —	Display station, \$			2,750 (base)	1,695-5,500	1,295 (base)
Controller, \$ Software, \$ Quantity discounts available No Ves Ves 11/76 200 Olivetti 150 Omron & third party 250 COMMENTS 11/76 200 Omron & third party 250 Discountity discounts available No 11/76 200 Omron & third party 250 Microprocessor-based unit with up to 16K bytes of RAM in 2K or 4K increments; soft-ware support; Diablo HyType	Serial printer, \$			_	-	2,995
Quantity discounts available No Yes Yes Yes Yes Yes Yes Yes Ye		-	-	-		
AVAILABILITY Date of first production delivery Display units instaled to date Serviced by No. of service locations Includes integral controller capable of supporting 24 IBM 3277-type terminals AVAILABILITY Date of first production delivery Display units instaled to date 200 Owr 2,500 Omron & third party 250 Microprocessor-based unit with up to 16K bytes of RAM in 2K or 4K increments; software support; Diablo HyType 8/76 Over 300 Omron & third party 250 Third party Price based on quantity of 100 Price based on quantity of 100		No	Yes			
Date of first production delivery Display units instaled to date Serviced by No. of service locations 11/76 200 Olivetti 150 Includes integral controller capable of supporting 24 IBM 3277-type terminals Over 2,500 Omron & third party 250 Microprocessor-based unit with up to 16K bytes of RAM in 2K or 4K increments; software support, Diablo HyType 8/76 Over 300 Omron & third party 250 Uses Intel 8080 microprocessor quantity of 100 11/74 Over 1,500 Third party — Perkin-Elmer 27	•					
Display units instaled to date Serviced by No. of service locations Olivetti 150 Over 2,500 Omron & third party 250 Microprocessor- based unit with up to 16K bytes of RAM in 2K or 4K increments; soft- ware support; Diablo HyType Over 300 Omron & third party 250 Third party Perkin-Elmer 27 Wicroprocessor discrements; soft- ware support; Diablo HyType	Date of first production delivery	11/76	12/73	8/76		2/77
No. of service locations 150 Includes integral controller capable of supporting 24 IBM 3277-type terminals SOMMENTS Display the processor based unit with up to 16K bytes of RAM in 2K or 4K increments; software support, Diablo HyType 250 Uses Intel 8080 microprocessor quantity of 100 Price based on quantity of 100	Display units instaled to date	200	Over 2,500	Over 300	Over 1,500	_
Includes integral controller capable of supporting 24 IBM 3277-type terminals Includes integral controller capable of supporting 24 IBM 3277-type terminals Microprocessor-based unit with up to 16K bytes of RAM in 2K or 4K increments; software support; Diablo HyType	Serviced by		Omron & third party		Third party	
controller capable of supporting 24 IBM 3277-type terminals Ware support; Diablo HyType	No. of service locations	150	250	250	1-	27
controller capable of supporting 24 IBM 3277-type terminals AAM in 2K or 4K increments; software support; Diablo HyType	OMMENTS	Includes integral	Microprocessor-	Uses Intel 8080	Price based on	
supporting 24 IBM 3277-type terminals to 16K bytes of RAM in 2K or 4K increments; software support; Diablo HyType	-	controller capable of	based unit with up			1
increments; soft- ware support; Diablo HyType		supporting 24 IBM	to 16K bytes of	1	1	1
ware support; Diablo HyType		3277-type terminals			1	1
Diablo HyType		1				1
		1	ware support;	1	l	1
				1		

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Perkin-Elmer Owl-1200	Perry PE 9000	Pertec Model 7100	Plantronics VU Set DS-150A	Quotron Series 800
TERMINAL DESCRIPTION Processor control Memory range, bytes Stand-alone unit Local cluster arrangement Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer Interface Portable case	Microprocessor 6K ROM; 2.5K RAM Yes No No — — — — No No	No Yes No No No No	Microprocessor Yes No No No No Std.	No Yes No No	Minicomputer 4K-128K No Yes Yes 24 - 36 No No
COMPATIBILITY IBM 3270/3275 IBM 2260/2265 Teletype 33/35 Teletype 40 Other	No No Std. No No	No No Yes — No	No No Std. No No	No No Std. No No	Opt. Opt. Opt. No No
PROGRAMMABILITY Programmed via: User-created programs User-defined parameters Vendor-defined firmware User-defined firmware Vendor-supplied software	No No Yes No No	No No No No No	No No Yes Yes No	No No No No No	Yes No No No Assembly language, operating system, others
Software pricing DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation	1920 24 x 80 12-inch-diag. 96 ASCII 7 x 9 dot matrix		960/1920 12/24 x 80 5.5 x 8.25 64; 96 opt. 7 x 9 dot matrix	64 4 x 16 3-inch-diag. 64 5 x 7 dot matrix	Std. 1200/1600 20 x 60/80 48 x 64; 6 x 8 96 14 x 22 dot matrix
DISPLAY FEATURES Color Reverse video Programmable brightness levels Character and/or field blinking	No Std. 2 std.	No No No Std.	No Std. No No	No No 2 std. Field std.	No Opt. No Opt.
Roll Paging	Up std. No	Up std. No	Std.	No No	No No
CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor	U, D, L, R, H, Rt. Opt. Std.	U, D, L, H, Rt. Std. No	U, D, L, R, H Std. Std.	None No No	U, D, L, R, H, Rt. Std. Std., addressable
FORMAT CONTROL Protected format Format creation via keyboard Format editing via keyboard Format storage Partial screen transmit Tabulation	Std. Std. Std. 1 std. Std. Std.	No No No No No No	Std. Std. Std. Std. Std. Std. Std.	No No No No No No	Opt. Opt. Opt. Opt. Opt. Opt. Opt. Opt.
EDIT FUNCTIONS Character insert/delete Line insert/delete Character erase Line erase Screen erase Character repeat	Std. Std. Std. Std. Std. Std.	No No No No Std. Std.	Std. Std. No Opt. Std. Std.	No No No No Std. No	Opt. Opt. Std. No Std. Opt.
KEYBOARD PARAMETERS Style Character/code set Detachability Program function keys Cursor control keys Edit function keys Numeric keypad	Typewriter 128 ASCII Opt. 16 std. 5 std. 7 std. Std.	Typewriter 128 ASCII Std. No 5 std. No Std.	Typewriter ASCII Std. 5 std.; 11 opt. 5 std. 6 std.; 1 opt. Opt.	Touch-Tone; 12 keys DTMF Std. 2 std. No No Std.	Block/typewriter ASCII Std. 10 opt. 6 std. 2 std.; 5 opt. No

Part 2:

Operator Features Ancillary Features Transmission Parameters Transmission Features Terminal Interface Line Interface

VENDOR & MODEL	Tec, Inc. Model 440	Tec, Inc. Models 450/455 & 460/465	Tec, Inc. Models 1401, 1440, 2401, & 2402	Tec, Inc. Model 4400	Tektronix Model 4023
OPERATOR FEATURES					
Numeric keylock	No	No	No	No	-
Audible alarm Keylock	Std. No	Std. No	Std. No	Std. No	Std.
Operator I.D. card reader	No	No	No	No	No
Light pen	No	No	No	No	No
ANCILLARY DEVICES	l	1			l
Cassette tape drive	No	No No	RS-232 interface	RS-232 interface RS-232 interface	No No
Diskette drive (floppy disk) Serial printer	No RS-232 interface	No RS-232 interface	No RS-232 interface	RS-232 interface	Photo, copier
Print speed & print positions, cps	_	_	-	-	8 to 18 sec./pag
Other devices	None	None	None	None	None
TD 4 NO.410010 N B 4 D 4 M 5 T 5 D 0					
TRANSMISSION PARAMETERS Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	 Half/full-duple:
Technique	Asynchronous	Asynchronous	Asynchronous	Async/syns.	Asynchronous
Communications protocol	ASCII	ASCII/Burroughs	ASCII	ASCII	ASCII
Code	ASCII	ASCII	ASCII	ASCII	ASCII
Unit code structure, bits/char.	10/11	10/11	10/11	8/10/11	10/11
Speed, bits/second Operator selectable speeds	110 to 9600	110 to 9600	110 to 9600	110 to 9600	110 to 9600 Yes
Format: character, line, or block	Char. only	Char./block	Char./block	Char./block	Char./block
TRANSMISSION FEATURES					
Multipoint operation (pollable/addr.)	No	Std., 460/465	No	Std.	No
Auto answer	No	No	No	No	No
Auto call	No	No	No	No	No
TERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C
_INE INTERFACE					
External modem required	Yes	No	No	No	No
Integral modem	No	Std.	Std.; Opt., 1440	Std.	Std.
Integral acoustic coupler Vendor-supplied external modem	No No	No No	No No	No No	No No
DIAGNOSTICS					
Self diagnostics	No	No	No	No	No
In line	No	No	No	No	No
On line Off line	No No	No No	No No	No No	No No
PRICING (price range shows cost of					
basic unit and unit with all options)					
Lease price including maintenance:					140
Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo.	-	_		_	140 140
Display station, 2 year lease, \$/mo.	- -	_	_	_	-
Serial printer, 1 year lease, \$/mo.	_	_		_	
Serial printer, 2 year lease, \$/mo.	_	_	-	_	_
Serial printer, 3 year lease, \$/mo.		-	-	-	_
Controller, 1 year lease, \$/mo.	-	_	_		_
Controller, 2 year lease, \$/mo. Controller, 3 year lease, \$/mo.	_	_	-	_	_
Purchase price:				_	
Display station, \$	1,920	Contact vendor	1,295-2,145	Contact vendor	3,495
Serial printer, \$ Controller, \$	_	_	1 –	_	_
Software, \$	_		_	_	=
Quantity discounts available	Yes	Yes	Yes	Yes	_
AVAILABILITY					
Date of first production delivery	1/72	′70; ′74, 460/465	11/74 to 4/75	6/75	7/73
Display units installed to date	1,500	4,480	3,500		Takena !
Serviced by No. of service locations	Tec —	Tec —	Tec	Tec —	Tektronix —
COMMENTS		Book marrat	Model 2402 :	Book meunt	
COMMENIS		Rack mount available	Model 2402 is a 2401 with lower case alphabetics	Rack mount available	
	l	l			Í

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

DISPLAY FEATURES Color Reverse video Programmable brightness levels Character and/or field blinking No No No No No No No No No No No No No	VENDOR AND MODEL	Tektronix Models 4010 & 4010-1	Tektronix Model 4006-1	Teleram Communications P-1800	Teletype Models 40/2 & 40/3	Teletype Model 40/4
Memory ranse, bytes 2520 2590 Up to 120K						
Vest					No	No
Local cluster arrangement No					Ves	No.
Remote cluster arrängement No						
Max. no. of printers/centroller						
Max. no. of devices/controller			– .	 _ '	-	24
Any mix of screen sizes/controller				1-		
Computer Interface				1-	_	
Portable case			_		No	
IBM 2270/3275		No	No	Yes; 23 lbs.		
IBM 2270/3275	COMPATIBLE ITY					
IBM 2260/2265 No		No	No	No.	No	Std . DSC anly
Teletype 33/35						
Teletype 40						
Programmable via:	Teletype 40	Std.	Std.		· ·	_
PROGRAMMABILITY Programmable visit Ves	Other	No	No		No	No
PROGRAMMABILITY Programmable via: User-created programs Ves No						
Programmable via: User-created programs User-defined parameters Ves No No Ves No No No Ves No No No No Ves No No No No No Ves No No No No Ves No No No No No No No N	PROGRAMMARILITY		ļ.	Automation		
User-defined parameters]		
User-Ledifined parameters		Yes	Yes	No	No	No
User-defined firmware					No	
Vendor-supplied software						
Software pricing						
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./display arrangement, lines x chars./display arrangement, lines x chars./display arrangement, lines x chars./d	vendor-supplied software	Fortran	Fortran	INO I	No	No
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line arrangement, lines x chars./line arrangement, lines x chars./line arrangement, lines x chars./line arrangement, lines x chars./line arrangement, lines x chars./line arrangement, lines x chars./line arrangement, lines x chars./line arrangement, lines x chars./line arrangement, lines x chars./line arrangement, lines x chars./line arrangement, lines x chars./line arrangement, lines x chars./lines x ch						
Display positions, chars./display 2520 2590 616 1920 1920 24 x 80 525 x 72 55 x 72 55 x 75 5625 x 7.	, -	Extra cost	Extra cost	Extra cost	_	_
Display arrangement, lines x chars./line 25x 72 55x 72 5.625 x 7.5 64 51x 5.5 5.625 x 1.5 5.625 x 7.5 64 51x 5.5 5.25 x 11.25 5.25 x		0500	0=00			
Display area, h x w, inches 5,625 x 7.5 64						
Total displayable symbols 64 5 x 7 dot matrix 5 x 7 dot matrix 5 x 7 dot matrix 7 x 9 dot matrix						
Symbol formation						
No		5 x 7 dot matrix				7 x 9 dot matrix
No	21001 437 55 457 1550			[
Reverse video Programmable brightness levels Character and/or field blinking No No No No No No No No No No No No No		No	Na	No.	NI.	A1 -
Programmable brightness levels No No No No No No No N						
Character and/or field blinking						
Paging	Character and/or field blinking	No	No			
CURSOR CONTROL Cursor positioning; Up, Down, Left, Right, Home, Return Cursor blinking Addressable/readable cursor Std. No No No No No No No Opt. Std. Std. No No No No Opt. Std. Std. Std. No No No Std. Std. No Std. Std. No No No No Std. Std. No Std. Std. Std. No Std. Std. No Std. Std. Std. No Std. Std. Std. No Std. Std. Std. Std. Std. Std. Std. Std.				Up & down std.		
Cursor positioning; Up, Down, Left, Right, Home, Return Std. No No No No No No Std. Std. Std. Std. No No No Std. St	1	110	140	_	2/3 pages opt.	140
Right, Home, Return Cursor blinking						
Cursor blinking		H, Rt.	H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, F
Addressable/readable cursor		C+d	No	No.	Ni-	0-4
CORMAT CONTROL						
Protected format						
Format creation via keyboard			l	l I		
Format editing via keyboard No						
Format storage						
Partial screen transmit	Format storage				- · ·	_
DIT FUNCTIONS Character insert/delete No					Std.	Std.
Character insert/delete No No No Std. No Partial Std. Std. Std. Std. Std. Partial Partial Partial EYPBOARD PARAMETERS Style Typewriter Typewriter Typewriter Typewriter Typewriter ASCII No	Tabulation	No	No	Std.	Opt.	
Character insert/delete No No No Std. No Partial Std. Std. Std. Std. Std. Partial Partial Partial EYPBOARD PARAMETERS Style Typewriter Typewriter Typewriter Typewriter Typewriter ASCII No	DIT FUNCTIONS					
Line insert/delete No No Std. Std. Std. Std. Std. Std. No Std. Std. Std. Std. Std. Std. Std. Std. Std. Partial Partial Partial EYBOARD PARAMETERS Style Typewriter Typewriter Typewriter Typewriter Typewriter ASCII No 12 std. 9 std. 9 std. 4 std. 4 std. 4 std. 4 std. 4 std. 4 std. 4 std. 4 std. 4 std. 4 std. 4 std. <		No	No	Std	Std	Std
Character erase No No No Std. No 12 std. Q 9 std. Edit function keys No No No B std. 4 std. 4 std.						
Streen erase		No	No	Std.	No	No
Character repeat Std. Std. Std. Partial Partial EYBOARD PARAMETERS Typewriter Typewriter Typewriter Typewriter Typewriter Typewriter Typewriter Typewriter Typewriter ASCII ASCII ASCII ASCII ASCII ASCII ASCII ASCII ASCII Opt. No No No No 12 std. Opt. Std. 9 std. 9 std. Edit function keys No No B std. 4 std. 4 std. 4 std.						
CEYBOARD PARAMETERS Style Character/code set Character/code set Character/code set Character/code set Character/code set Character/code set Character/code set Character/code set Character/code set ASCII A						
Style Typewriter Character/code set Typewriter ASCII Typewriter ASCII Typewriter ASCII Typewriter ASCII Typewriter ASCII Typewriter ASCII ASCII ASCII ASCII ASCII ASCII ASCII ASCII ASCII No Opt. Program function keys No No No No No 12 std. Cursor control keys No No 6 std. 7 std. 9 std. Edit function keys No No 8 std. 4 std. 4 std.	·		J		. ai uai	· ai tiği
Character/code set ASCII ASCIII ASCII ASCII ASCII ASCII ASCII ASCII ASCII ASCII ASCIII ASCIII ASCIII		Typewriter	Typewriter	Typewriter	Typewriter	Typewriter
Detachability No No Std. No Opt. Program function keys No No No 12 std. Cursor control keys No No 6 std. 7 std. 9 std. Edit function keys No No 8 std. 4 std. 4 std.		ASCII	ASCII	ASCII		
Program function keys No No No 12 std. Cursor control keys No No 6 std. 7 std. 9 std. Edit function keys No No 8 std. 4 std. 4 std.			No	Std.	No	Opt.
Edit function keys No No B std. 4 std. 4 std.						12 std.
1						
			1	140	140	140
			1			

Part 2:

Operator Features Ancillary Features

Transmission Parameters

Transmission Features Terminal Interface Line Interface

VENDOR AND MODEL	Tektronix Models 4010 & 4010-1	Tektronix Model 4006-1	Teleram Communications P-1800	Teletype Models 40/2 & 40/3	Teletype Model 40/4
OPERATOR FEATURES					
Numeric keylock	No	No	No	No	Std.
Audible alarm Keylock	Std. No	Std. No	No Opt.	Std. No	Std. No
Operator I.D. card reader	No	No	Opt.	No	No
Light pen	No	No	No.	No	No
ANCILLARY DEVICES					
Cassette tape drive	Single	Single	Single	No	No
Diskette drive (floppy disk)	Single/dual	Single/dual	RS-232 interface	No	No
Serial printer	Photo. copier	Photo. copier	RS-232 interface	Impact	Impact
Print speed & print positions, cps Other devices	10 to 36 sec./page None	10 to 36 sec./page None	 None	220-314 lpm @ 80 None	220-314 lpm @ 8 None
TRANSMISSION PARAMETERS					
Mode	Half/full-duplex	Half/full-duplex	Half-duplex	Half/full-duplex	Half-duplex
Technique	Async./sync.	Asynchronous	Asynchronous	Asynchronous	Synchronous
Communications protocol Code	ASCII	ASCII ASCII	ASCII ASCII/TTS/other	ASCII ASCII	BSC ASCII
Unit code structure, bits/char.	10/11	10/11	7/8	10	10
Speed, bits/second	110 to 9600	75 to 4800	Up to 1200	110 to 4800	2400/4800
Operator selectable speeds	8 std.	8 std.	5 std.	2 opt., 40/3 only	No
Format: character, line, or block	Char. only	Char. only	Block only	Block/Char. opt.	Block only
TRANSMISSION FEATURES					_
Multipoint operation (pollable/addr.)	No	No	Std.	Opt.	Std.
Auto answer	No	No	Opt.	Std.	Std.
Auto call	No	No	Std.	No	No
ERMINAL INTERFACE	RS-232 B/C CCITT V.24	RS-232 B/C CCITT V.24	RS-232C	RS-232C	RS-232C
INE INTERFACE					
External modern required	Yes	Yes	Yes	Yes	Yes
Integral modem	No	No	No	No	No
Integral acoustic coupler	No	No	No	No	No
Vendor-supplied external modem	No	No	Std.	No	No
DIAGNOSTICS					
Self diagnostics	No	No	No	Yes	Yes
In line	No	No	Yes	No	Yes
On line Off line	No No	No No	Yes No	No Yes	No Yes
PRICING (price range shows cost of					
basic unit and unit with all options)					
Lease price including maintenance: Display station. 1 year lease. \$/mo.	210	180	No lossina	No lossins	No loosing
Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo.	210 180	150	No leasing	No leasing	No leasing
Display station, 3 year lease, \$/mo.	150	120		_	_
Serial printer, 1 year lease, \$/mo.	_	_	_	_	_
Serial printer, 2 year lease, \$/mo.	_	_	_		
Serial printer, 3 year lease, \$/mo.	_	_	 _	_	-
Controller, 1 year lease, \$/mo.	_		_	-	_
Controller, 2 year lease, \$/mo.	-	_	 -	_	-
Controller, 3 year lease, \$/mo.	_	_	[-	_	_
Purchase price:	4 105	2 005	E 40E	2 612 4 172	022
Display station, \$ Serial printer, \$	4,195	2,995	5,495 1,950	3,613-4,173 1,851	933 1,633
Controller, \$	_	_	-,350	1,087	3,956-3,909
Software, \$				1,007	
Quantity discounts available	Yes, with 4 units	Yes, with 4 units	_	No	No
VAILABILITY	or more	or more			
Date of first production delivery	10/71	10/75	10/74	' 73,40/2; ' 74,40/3	1975
Display units installed to date	I=	=	Over 200	Over 6,000	l <u> </u>
Serviced by No. of service locations	Tektronix 38	Tektronix 38	Teleram –	Teletype & Bell 30	Teletype & Bell 30
COMMENTS	Provides full	Provides graphics		Also available from	Also available fro
	graphics capability;	capability; variety		AT&T (Bell Sys-	AT&T (Bell Sys-
	rack mount avail-	of software pack-		tem) as Dataspeed	stem) as Dataspe
	able; variety of	ages available		40, and from	40 (pending tarif
	software packages available			leasing companies	
	1	I	1	I	1

Part 1:

Terminal Description Compatibility Programmability

Display Organization Display Features Cursor Control

VENDOR AND MODEL	Termiflex HT/1 & HT/2 Handheld Terminals	Terminal Communications TC 275	Terminal Communications TC 277	Trans-Lux Vidi News (monitor only)	Trans-Lux News Jet (monitor only)
TERMINAL DESCRIPTION					
Processor control	No	No	No	No	No
Memory range, bytes Stand-alone unit	- Yes	_ Yes	- No	Yes	Yes
Local cluster arrangement	No	No	Yes	Yes	Yes
Remote cluster arrangement	No	No	Yes	Yes	Yes
Max. no. of displays/controller	_		32	Unlimited	Unlimited
Max. no. of printers/controller	_	-	_	-	
Max. no. of devices/controller	_	-	32	- Std.	 No
Any mix of screen sizes/controller Computer Interface	No	No	Yes	No	No
Portable case	Std.; 1.5 lbs.	No	No	No	No
COMPATIBILITY	No	Std.	Std.	No	No
IBM 3270/3275 IBM 2260/2265	No	No	No	No	No
Teletype 33/35	Std.	No	No	No	Yes
Teletype 40	No	No	No	No	No
Other	No	No	No	No	No
PROCEAMMARILITY					
PROGRAMMABILITY Programmable via:			!		
User-created programs	No	No	No	No	No
User-defined parameters	No	No	No	No	No
Vendor-defined firmware	No	No	No	No	No
User-defined firmware	No No	No	No	No No	No
Vendor-supplied software	No	No	No	No	No
Software pricing	_	_	l- i	-	_
DISPLAY ORGANIZATION					
Display positions, chars./display	10: 20 (HT/2)	480/1920	480/1920	576	288
Display arrangement, linex x chars./line		12×40; 24× 80	12 x 40; 24 x 80	12 × 48	6 x 48
Display area, h x w, inches	2 x 4	14-inch diag.	14-inch diag.	11 or 23 inch diag.	24 × 87
Total displayable symbols	128	64	64	All Baudot	All Baudot, ASCI
Symbol formation	5 x 7 dot LED	7 x 9 dot matrix	7 x 9 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix
DISPLAY FEATURES	matrix				
Color	No	No	No	No	No
Reverse video	No	Opt.	Opt.	No	No
Programmable brightness levels	No	2 std.	2 std.	No	No
Character and/or field blinking	No	No	No	No	No
Roll	Up & down std.	No	No	No	No
Paging	No	No	No	No	No
OUDGOD CONTROL					
CURSOR CONTROL		L, R, U, D, H, Rt.	L, R, U, D, H, Rt.	None	None
Cursor positioning; Up, Down, Left, Right, Home, Return	U, D, H	L, n, o, b, n, n.	[L, n, U, D, n, nt.]	Notie	None
Cursor blinking	Std.	No	No	No	No
Addressable/readable cursor	No	Std.	Std.	No	No
FORMAT CONTROL					
FORMAT CONTROL Protected format	No	S+4	Std.	No	No
Format creation via keyboard	No No	Std. Std.	Std.	No No	No No
Format editing via keyboard	No	Std.	Std.	No	No
Format storage	No	Std.	Std.	No	No
Partial screen transmit	No	Std.	Std.	No	No
Tabulation	No	Std.	Std.	No	No
EDIT FUNCTIONS			[
Character insert/delete	No	Std.	Std.	No	No
Line insert/delete	No	Std.	Std.	No	No
Character erase	No	Std.	Std.	No	No
Line erase Screen erase	No Std.	Std. Std.	Std.	No No	No No
Character repeat	Std.	Sta.	Std.	No No	No No
			1		· - -
KEYBOARD PARAMETERS	Modified	Typewriter/	Typewriter/		
Style	"Touchtone"	data entry	data entry	No keyboard	No keyboard
Character/code set Detachability	Full ASCII No	ASCII/EBCDIC Std.	ASCII/EBCDIC Std.	_	_
Program function keys	None	Opt.	Opt.	_	_
riogram junction kevs	3 std.	6 std.	6 std.	_	_
Cursor control keys		8 std.	8 std.	_	_
Cursor control keys Edit function keys	2 std.				
Cursor control keys	2 std. Std.	Std.	Std.	_	_
Cursor control keys Edit function keys			Std.	_	_
Cursor control keys Edit function keys				_	_
Cursor control keys Edit function keys			Std.	_	_

Part 2:

Operator Features Ancillary Features Transmission Parameters

Transmission Features
Terminal Interface
Line Interface

VENDOR AND MODEL	Termiflex HT/1 & HT/2 Handheld Terminals	Terminal Communications TC 275	Terminal Communications TC 277	Trans-Lux Vidi News (monitor only)	Trans-Lux News Jet (monitor only)
OPERATOR FEATURES	1				
Numeric keylock	No	_	_	No	No
Audible alarm	Std.	Opt.	Opt.	No	No
Keylock	No	_	-	No	No
Operator I.D. card reader	No			No	No
Light pen	No	No	No	No	No
ANCILLARY DEVICES					
Cassette tape drive	No	No	No	No	No
Diskette drive (floppy disk)	No	No	No	No	No
Serial printer Print speed & print positions, cps	No	Impact	Impact	No	No
Other devices	None	None	None	None	None
TRANSMISSION PARAMETERS					
Mode	Half/full-duplex	Half-duplex	Half-duplex	Half-duplex	Half-duplex
Technique	Asynchronous	Synchronous	Synchronous	Asynchronous	Asynchronous
Communications protocol	ASCII	BSC	BSC	_	-
Code	ASCII	ASCII/EBCDIC	ASCII/EBCDIC	Baudot	Baudot, ASCII
Unit code structure, bits/char. Speed, bits/second	10/11 110/150/300/1200	8 1200 to 4800	1200 to 7200	5 50 to 150	5/10 50 to 150
Operator selectable speeds	_	No	Νο	50 to 150 No	50 to 150 No
Format: character, line, or block	Char. only	Block only	Block only	Char. only	Char. only
· ·				= · · · • •	
TRANSMISSION FEATURES	N.	Chal		N1 -	A1
Multipoint operation (pollable/addr.) Auto answer	No No	Std. No	Std. No	No No	No No
Auto call	No	No	No	No	No
					· · · -
TERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C/loop	RS-232C/loop
LINE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	Yes
Integral modem	No	No	No	No	Yes
Integral acoustic coupler	Opt.	No	No	No	No
Vendor-supplied external modem	No	No	No	Yes	Yes
DIAGNOSTICS					
Self diagnostics	No	No	No	No	No
In line	No	No	No	No	No
On line Off line	No No	No No	No No	No No	No No
on time	1	140		140	NU
PRICING (price range shows cost of					
basic unit and unit with all options)					
Lease price including maintenance: Display station, 1 year lease, \$/mo.	ĺ	132-176	82-154	20.25	205
Display station, 2 year lease, \$/mo.	_	127-173	79-148	20.25 20.25	325 275
Display station, 3 year lease, \$/mo.		-	- 140	20.25	135
Serial printer, 1 year lease, \$/mo.			-	_	
Serial printer, 2 year lease, \$/mo.	-			-	_
Serial printer, 3 year lease, \$/mo. Controller, 1 year lease, \$/mo.	_ _ _		_ 180-196	_ 195	_
Controller, 2 year lease, \$/mo.	I_	_	180-196 180-196	175	_
Controller, 3 year lease, \$/mo.		_	-	165	_
Purchase price:					
Display station, \$ Serial printer, \$	1,190;1,570(HT/2)	5,100-7,550	3,400-5,200	-	16,000
Controller, \$	_	_	 6,630-7,340	- 4,500	_
Software, \$	_ 			<u>-</u>	
Quantity discounts available	Yes	Yes	Yes	Yes	Yes
AVAILABILITY					
Date of first production delivery	6/74	1/74	2/74	_	_
Display units installed to date	Over 200	230	2,050		<u>-</u> .
Serviced by No. of service locations	Termiflex 	TC1	TC1	Translux 20	Translux 20
COMMENTS	Switch-selectable			Dedicated to the	Dedicated to the
	speeds; red LED			brokerage industry.	brokerage industry.
	display; external power supplies sell			Attaches to Trans- Lux teleprinter	Attaches to Trans-
	for \$160 (PS/1, 6			Fay felchilltet	Lux teleprinter
	lbs.) or \$390 (PS/2				
	1.5 lbs.). TE/1 cou-				
	pier sells for \$580				
	L		l		

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

No	VENDOR AND MODEL	Trivex 40/80	Trivex Plus 70	Univac Uniscope 100	Univac Uniscope 200	Video Data- Systems 100 Series
Memory range, bytes	TERMINAL DESCRIPTION					
Stand-shore Unit	Processor control	No		No	No	No
Local cluster errangement Yes		- Van		Voc	Ves	Ves
Yes						
Max. no. of displays/controller 32 32 1 or 31 via 2 mux*s. 32 -				No	No	
Max. no. of devices/controller	Max. no. of displays/controller	32		1 or 31 via 2 mux's.	1 or 31 via 2 mux's.	
No				-	-	
No						
No					_	
BM 250/3255	Portable case				No	Opt.
ISM 2250/2255	COMPATIBILITY			i		
Teletype 33/25	IBM 3270/3275					
Tailetype 40	IBM-2260/2265					
No						Sta.
Vistro-defined programs Vistro-defined parameters Vistro-defined parameters Vistro-defined firmware Vistro-defin	Other					_
User-defined parameters	PROGRAMMABILITY Programmable via:	No	No	No	No	No
Vendor-defined firmware No No No No No No No N						
User-defined firmware		No	Yes	No	No	No
Software pricing	User-defined firmware					
SEPLAY ORGANIZATION Display positions, chars_/display Display positions, chars_/display Display prositions, chars_/display Display arrangement, lines x chars./line 6/12 x 40; 12 x 80 12 x 40; 24 x 80 12 x 80; 16 x 64 12 x 8	Vendor-supplied software	No	No	No	No	No
SEPLAY ORGANIZATION Display positions, chars_/display Display positions, chars_/display Display prositions, chars_/display Display arrangement, lines x chars./line 6/12 x 40; 12 x 80 12 x 40; 24 x 80 12 x 80; 16 x 64 12 x 8						
Display positions, chars_/display 240/480/960 480/1920 12 x 80 12 x 80 12 x 80 12 x 80 12 x 80 16 x 64 12 x 80 16 x 64 12 x 80 16 x 64 12 x 80 12 x 80 16 x 64 12 x 80 12 x 80 16 x 64 12 x 80 12 x 80 16 x 64 12 x 80 12 x 80 16 x 64 12 x 80 12 x 80 16 x 64 12 x 80 12 x 80 16 x 64 12 x 80 16 x 64 12 x 80 12 x 80 12 x 80 16 x 64 12 x 80 16 x 64 12 x 80 16 x 64 12 x 80 16 x 64 12 x 80 12 x 80 16 x 64 12 x 80 16 x 64 12 x 80 12 x 80 16 x 64 12 x 80 12 x 80 16 x 64 12 x 80 12 x 80 16 x 64 12 x 80 12 x 80 16 x 64 12 x 80 12	Software pricing	_	_	_		_
No	DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation	6/12 x 40; 12 x 80 6 x 9 64	12 x 40; 24 x 80 8 x 11 64; 96	12 x 80; 16 x 64 5 x 10 64; 96 opt.	24 x 64/80 7 x 10 64; 96 opt.	8 x 32 to 24 x 8 Variable 64 7 x 8; 10 x 14
Reverse video Programmable brightness levels No Std. St	DISPLAY FEATURES					
Programmable brightness levels Std. Std. Std. Std. Std. Std. Std. Std. Std. Character and/or field blinking No						
Std. Std. Std. Std. Std. Std. Std. Std. Std. Std. Char. opt.						
Paging	Character and/or field blinking					
Cursor positioning; Up, Down, Left, Right, Home, Return U, D, L, R, H, Rt. Std.	Roll Paging			Via software —	Via software —	Up opt. —
Opt. Std. Std. Std. Std. Std. Opt. Std. Std. Std. Opt. Opt. Std. Std. Opt.	CURSOR CONTROL Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, F
Std.			0.4	la	C4.4	0-4
Protected format	Cursor blinking Addressable/readable cursor					
Protected format						
No		Std.	Std.	Std.	Std.	No
No	Format creation via keyboard		No	Std.	Std.	No
Partial screen transmit	Format editing via keyboard					
Tabulation						
DIT FUNCTIONS Character insert/delete Std.						
Character insert/delete Std. Std. Std. Std. No Line insert/delete Std. No Std. Std. Std. No Character erase Std. Std. Std. Std. Std. No Line erase Std. No Std. Std. Std. No No No Std.						
Std. Std.		Std.	Std.	Std.	Std.	No
Std. Std.						
Strict	Character erase	Std.	Std.			
Character repeat Std. Typewriter/ data entry/console EBCDIC ASCII Betachability Std. Std.	Line erase					
Typewriter/ data entry Character/code set Detachability Program function keys Edit function keys Edit function keys Edit function keys Edit function keys Std. Typewriter/ data entry/console EBCDIC EBCDIC Std. Std. Std. Std. Std. Std. Std. Std.						
Styledata entrydata entry/consoleTypewriterTypewriterTypewriterTypewriterTypewriterASCIICharacter/code setASCIIEBCDICASCIIASCIIASCIIASCIIDetachabilityStd.Std.NoNoStd.Program function keysNo12 opt.4 std.4 std.5 opt.Cursor control keys6 std.9 std.6 std.6 std.6 std.Edit function keys8 std.5 std.8 std.8 std.2 std.	•					
Character/code set ASCII EBCDIC ASCII ASCII <td></td> <td></td> <td></td> <td>Typewriter</td> <td>Typewriter</td> <td>Typewriter</td>				Typewriter	Typewriter	Typewriter
Detachability Std. Std. No No Std. Program function keys No 12 opt. 4 std. 4 std. 5 opt. Cursor control keys 6 std. 9 std. 6 std. 6 std. 6 std. Edit function keys 8 std. 5 std. 8 std. 8 std. 2 std.						
Program function keysNo12 opt.4 std.4 std.5 opt.Cursor control keys6 std.9 std.6 std.6 std.6 std.Edit function keys8 std.5 std.8 std.8 std.2 std.						Std.
Cursor control keys 6 std. 9 std. 6 std. 6 std. 6 std. 6 std. 6 std. 2 std. 2 std.	Detachability		12 opt.	4 std.	4 std.	5 opt.
					6 ctd	
Numeric keypad Std. Opt. Opt. Opt. No	Program function keys Cursor control keys	6 std.				
	Program function keys Cursor control keys Edit function keys	6 std. 8 std.	5 std.	8 std.	8 std.	2 std.

Part 2:

Operator Features
Ancillary Features
Transmission Parameters

Transmission Features
Terminal Interface
Line Interface

VENDOR AND MODEL	Trivex 40/80	Trivex Plus 70	Univac Uniscope 100	Univac Uniscope 200	Video Data Systems 100 Series
PERATOR FEATURES		Std.	No	No	
Numeric keylock Audible alarm	No	Std.	Std.	Std.	No
Keylock	I-	Opt.	No '	No	_
Operator I.D. card reader Light pen	No No	Opt.	No No	No No	Std. No
•					
ANCILLARY DEVICES Cassette tape drive	No	No	Dual	Dual	RS-232 interfac
Diskette drive (floppy disk)	No	No	No	No	No
Serial printer Print speed & print positions, cps	Impact	Impact 80/165 @ 132	Impact/non-imp't. 30@132;300 @ 80	Impact/non-imp't. 30@132; 300@80	No _
Other devices	None	None	None	None	None
FRANSMISSION PARAMETERS					
Mode	Half-duplex	Half-duplex	Half-duplex	Half-duplex	Half/full-duplex
Technique	Async./sync.	Synchronous	Async./sync.	Async./sync.	Async./sync.
Communications protocol	ASCII	BSC/SDLC EBCDIC	ASCII (Univac)	ASCII (Univac) ASCII	ASCII ASCII
Code Unit code structure, bits/char.	8/10	8	8/10	8/10	8/10
Speed, bits/second	Up to 9600	110-9600	Up to 9600	Up to 9600	110 to 9600
Operator selectable speeds	No	No	No	No Block only	Char /51-51
Format: character, line, or block	Block only	Block only	Block only	Block only	Char./block
FRANSMISSION FEATURES Multipoint operation (pollable/addr.)	Std.	Std.	Std.	Std.	No
Auto answer	No	Opt.	Std.	Std.	Opt.
Auto call	No	No	No	No	No
FERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C
INE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	Yes
Integral modem Integral acoustic coupler	No No	No No	No No	No No	Opt. Opt.
Vendor-supplied external modem	No	No	No	No	No
DIAGNOSTICS	l				
Self diagnostics In line	No No	Yes Yes	No No	No No	No No
On line	No	Yes	No	No	No
Off line	No	Yes	No	No	No
PRICING (price range shows cost of basic unit and unit with all options)					
Lease price including maintenance:					
Display station, 1 year lease, \$/mo.	88	-	137-175	155-189	_
Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo.	79 _	94 87		_	
Serial printer, 1 year lease, \$/mo.	_	-	_	_	
Serial printer, 2 year lease, \$/mo.	-	175	-	-	_
Serial printer, 3 year lease, \$/mo. Controller, 1 year lease, \$/mo.	- 375	165	53-76 (mux)	 53-76 (mux)	_
Controller, 2 year lease, \$/mo.	332	190	- (IIIdx)	- (iliax)	_
Controller, 3 year lease, \$/mo.	-	177	-	_	_
Purchase price: Display station, \$	2,300	2,900	4,3 50 -5,696	5,100-6,496	_
Serial printer, \$	1-	5,150		-	_
Controller, \$ Software, \$	8,900 	5,250	2,036-2,849(mux)	2,036-2,849(mux) -	495-1,995 —
Quantity discounts available	-	-	-	-	_
AVAILABILITY Date of first production delivery	4/71	5/75	5/70	2/75	3/73
Display units installed to date	3,000	Over 800	-		100
Serviced by No. of service locations	Trivex	Trivex 20	Univac —	Univac —	VDS -
COMMENTS			Two multiplexers	Two multiplexers	Controller uses
· · · · · · · · · · · · · · · · · ·		1	can be cascaded to	can be cascaded to	video monitor f
		1	accommodate up	accommodate up	display; also ava
			to 31 terminals	to 31 terminals	able in printed circuit boards
	L				

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Video Data Systems CG 1000	Wang Laboratories 2200 System	Western Union Data Services Video 100	Westinghouse Models 1600 & 1600 DE	Westinghouse Model 1620	
TERMINAL DESCRIPTION						1
Processor control	No	Yes	No	No	No	1
Memory range, bytes	-	4K-32K	I	_	_	1
Stand-alone unit	Yes	Yes	Yes	Yes	Yes	١
Local cluster arrangement	No	Yes	No	No	No	١
Remote cluster arrangement	No	Yes	No	Yes	No	1
Max. no. of displays/controller	32	4	 	24	_	1
Max. no. of printers/controller	_	1	_	- .		I
Max. no. of devices/controller	-	1	_	24	_	1
Any mix of screen sizes/controller	_			=	-	١
Computer Interface Portable case	Yes	 No	No	No No	No No	
						١
OMPATIBILITY IBM 3270/3275	No	No	No	No	No	١
IBM 2260/2265	No	No	No	No	No	١
	Std.	Std.	Std.	Std., 1600 only	Std.	1
Teletype 33/35 Teletype 40	Sτα. No	Opt.	Std.	No	No	1
Other	No	2780/3780	No	No	No	ı
3		BSC-1/RS-232C				
ROGRAMMABILITY						
Programmable via:						
User-created programs	No	Yes	No	No	No	١
User-defined parameters	No	Yes	No	No	No	ı
Vendor-defined firmware	No	Yes	No	No	No	1
User-defined firmware	No	No	No	No	No	١
Vendor-supplied software	No	Yes	No	No	No	
Software pricing	_	Extra cost	_	_	_	
ISPLAY ORGANIZATION						١
Display positions, chars./display	256/512	1024/1920	960/1920	1600	1920	١
Display arrangement, lines x chars./line	8/16 x 32	16 x 64; 24 x 80	12/24 × 80	24 × 80	24 × 80	١
Display area, h x w, inches	Variable	8 x 10.5	5.5 × 8.25	6 x 8	6.5 x 8.5	1
Total displayable symbols	64	64; 96 opt.	64; 94 opt.	64; 96 opt.	64; 96 opt.	1
Symbol formation	10 x 14 dot matrix	5 x 7; 7 x 9 dot	5 x 7 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	١
		matrix				
ISPLAY FEATURES			l	·		1
Color	No	No	No	No	No	1
Reverse video	Opt.	No	No	No	No	
Programmable brightness levels	No Chan and	No	No	No Charleted	No	1
Character and/or field blinking	Char. opt.	Yes	No	Char. std.	No	1
Roll	No	Up std.	No	Up std.	Up std.	
Paging	No	_	No	_	_	
URSOR CONTROL	!			<u>_</u>		1
Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	L, R, Rt., CLR	U, D, L, R, H, Rt.	L, R, R t.	
Right, Home, Return			ا			I
Cursor blinking	Std.	No	No	Std.	No	1
Addressable/readable cursor	No	Std.	No	Std., addressable only	No	
ORMAT CONTROL				Oilly		1
Protected format	No	Yes	No	Std.	No	١
Format creation via keyboard	No	Std.	No	Std.	No	1
Format editing via keyboard	No	Std.	No	Std.	No	
Format storage	No	Programmable	No	Std.	No	1
Partial screen transmit	No	Yes	No	Std.	No	١
Tabulation	Std.	Std.	No	Std.	No	
DIT FUNCTIONS						
Character insert/delete	No	Std.	No	Std.	No	١
Line insert/delete	Opt.	Std.	No	Std.	No	1
Character erase	No	Std.	No	Std.	Std.	١
Line erase	No	Std.	No	Std.	No	١
Screen erase Character repeat	Std. Std.	Std. No	No Std.	Std.	Std.	
	Jid.	INO	3.0.	Std.	Std.	
EYBOARD PARAMETERS				Typewriter/		١
Style	Typewriter	Typewriter	Typewriter	data entry	Typewriter	1
Character/code set	ASCII	ASCII	ASCII	ASCII	ASCII	-
Detachability	No	Std.	No	Opt.; std., DE	Opt.	
Program function keys	5 opt.	32 std.	No	9 std., DE only	No	1
Cursor control keys	6 std.	Programmable	4 std.	6 std.	3 std.	
Edit function keys	2 std.; 1 opt.	9 std.	No	8 std.	3 std.	ļ
Numeric keypad	No	Std.	Opt.	Std.	Opt.	
			1			
						1
		l	1		I	

Part 2:

Operator Features Ancillary Features Transmission Parameters Transmission Features Terminal Interface Line Interface

VENDOR AND MODEL	Video Data Systems CG 1000	Wang Laboratories 2200 System	Western Union Data Services Video 100	Westinghouse Models 1600 & 1600 DE	Westinghouse Model 1620
OPERATOR FEATURES					
Numeric keylock Audible alarm	— No	No Yes	Opt. Std.	- Std.	_ Std.
Keylock	-	No	Opt.	- Stu.	- Sta.
Operator I.D. card reader Light pen	Std. No	No No	No No	_ No	_ No
ANCILLARY DEVICES					
Cassette tape drive	RS-232 interface	Single/dual	Single	No	Interface only
Diskette drive (floppy disk) Serial printer	No No	1, 2, or 3 spindles Impact	No Impact	No Interface only	No Interface only
Print speed & print positions, cps	-	200 cps	10/30/120	_	_
Other devices	None	Card reader	None	None	None
TRANSMISSION PARAMETERS					
Mode	Half/full-duplex	Half-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Technique Communications protocol	Asynchronous ASCII	Async./sync. EBCDIC/ASCII	Asynchronous ASCII	Async./sync. ASCII	Asynchronous ASCII
Code	ASCII	EBCDIC/ASCII	ASCII	ASCII	ASCII
Unit code structure, bits/char.	10/11	10/11	10/11	8/10	10
Speed, bits/second Operator selectable speeds	300	110 to 4800 Std.	110 to 19,200	110 to 9600	110 to 2400
Format: character, line, or block	Block only	Char./block	Char. only	Char./block	Char. only
TRANSMISSION FEATURES	l	l			
Multipoint operation (pollable/addr.) Auto answer	No No	No Std.	No Opt.	Opt.; std., DE Opt.; std., DE	No No
Auto call	No	No	No	No	No
TERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C	RS-232C
LINE INTERFACE					
External modem required	Yes	Yes	Yes	Yes	Yes
Integral modem	No	No	No	No	Opt.
Integral acoustic coupler Vendor-supplied external modem	No No	No No	No Opt.	No No	Opt. No
	NO	NO	Opt.	INO	NO
DIAGNOSTICS Self diagnostics	No	Yes	No	No	No
In line	No	No	No	No	No
On line	No	Yes	Yes	No	No
Off line	No	No	Yes	No	No
PRICING (price range shows cost of basic unit and unit with all options)				!	
Lease price including maintenance:					
Display station, 1 year lease, \$/mo. Display station, 2 year lease, \$/mo.		110	65 —	_	_
Display station, 3 year lease, \$/mo.	_	79	_		_
Serial printer, 1 year lease, \$/mo.	-	_	59-250	_ _ _	_
Serial printer, 2 year lease, \$/mo. Serial printer, 3 year lease, \$/mo.		250 180	_	_	_
Controller, 1 year lease, \$/mo.		_	-		_
Controller, 2 year lease, \$/mo.	_	270	-	_	
Controller, 3 year lease, \$/mo. Purchase price:	_	184	-	_	
Display station, \$	_	2,200	1,300	3,265; 3,400, DE	1,665
Serial printer, \$ Controller, \$	_ 2,995 -4 ,995	5,000 5,400	1,155-5,065	_ 3,99 0- 8,430	_
Software, \$		-	_	-	_
Quantity discounts available	_	-	-	_	_
AVAILABILITY Date of first production delivery	3/75	5/73	12/75	12/71; 1/75, DE	1/75
Display units installed to date		Over 7,000	17,000	_	_
Serviced by No. of service locations	VDS -	Wang Labs. Over 200	Western Union over 400	Westinghouse —	Westinghouse —
COMMENTS	Controller uses	Minicomputer-	Built by Lear	Optional printer	Switch-selectable
	video monitor for	based CRT unit	Siegler as ADM-3	interfaces for Cen-	data rates; single
	display	with a host of		tronics 101A,	logic pc board
		available peripherals		102A, and 306 printers; 1600 DE	
		Polibilolala		designed for on-	
				line data entry	
	l	L	L		

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

PERMINAL DESCRIPTION Processor control Memory range, bytes Stand-alone unit Local cluster arrangement Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer Interface Portable case COMPATIBILITY IBM 3270/3275	Microprocessor 4K-12K Yes No Opt. 8 1 10 Opt. No	Microprocessor Yes No No	 Yes No No 32	Yes 24K-64K Yes No	No - Yes
Memory range, bytes Stand-alone unit Local cluster arrangement Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer Interface Portable case COMPATIBILITY IBM 3270/3275	4K-12K Yes No Opt. 8 1 10 Opt. No	Yes No No - -	No No	24K-64K Yes No	Yes
Stand-alone unit Local cluster arrangement Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer Interface Portable case COMPATIBILITY IBM 3270/3275	Yes No Opt. 8 1 10 Opt. No	No No - - -	No No	Yes No	
Local cluster arrangement Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer Interface Portable case COMPATIBILITY IBM 3270/3275	No Opt. 8 1 10 Opt. No	No No - - -	No No	No	
Local cluster arrangement Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer Interface Portable case COMPATIBILITY IBM 3270/3275	Opt. 8 1 10 Opt. No	No - - - -	No		
Remote cluster arrangement Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer Interface Portable case COMPATIBILITY IBM 3270/3275	Opt. 8 1 10 Opt. No	- - -			No
Max. no. of displays/controller Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer Interface Portable case COMPATIBILITY IBM 3270/3275	8 1 10 Opt. No	- - -		Yes	No
Max. no. of printers/controller Max. no. of devices/controller Any mix of screen sizes/controller Computer Interface Portable case COMPATIBILITY IBM 3270/3275	1 10 Opt. No	_ _ _	102	8	
Max. no. of devices/controller Any mix of screen sizes/controller Computer Interface Portable case COMPATIBILITY IBM 3270/3275	10 Opt. No	_	1	8	_
Any mix of screen sizes/controller Computer Interface Portable case COMPATIBILITY IBM 3270/3275	Opt. No	-	I -	16	
Computer Interface Portable case COMPATIBILITY IBM 3270/3275	No	l . . .	1		_
Portable case COMPATIBILITY IBM 3270/3275			I- I	No	, —
COMPATIBILITY IBM 3270/3275	No	No	1	- -	No
IBM 3270/3275		No	No	No	IND
	No	Opt.	No	BSC/SDLC	No
			No	Opt.	No
IBM 2260/2265	No Sad	Opt.			Std.
Teletype 33/35	Std.	Opt.	Std.	Std.	
Teletype 40	Std.	No	No	Std.	No
Other	No	No	No	IBM 2780/3780, TWX, TELEX	No
ROGRAMMABILITY Programmable via:					N-
User-created programs	No	No	No	Yes	No
User-defined parameters	Yes	Yes	No	Yes	No
Vendor-defined firmware	Yes	Yes	[-	Yes	No
User-defined firmware	Yes	Yes		Yes	No
Vendor-supplied software	No	No	No	Op system,	No
		- -		assembler, basic	1
Software pricing	_	_	_	Std.	_
ISPLAY ORGANIZATION					i
	1920	1920	1998	1968	1280
Display positions, chars./display					16 x 80
Display arrangement, lines x chars./line		23/24 x 64/80	27 x 74	24 × 82	
Display area, h x w, inches	6.5 x 8.5	6.5 x 9	12-inch-diag.	7 x 10	5.5 × 7
Total displayable symbols	128; 256 opt.	96	64	128	64
Symbol formation	5 x 7/9 dot matrix	5 x 7 dot matrix	5 x 7 dot matrix	7 x 9 dot matrix	5 x 7 dot matrix
DISPLAY FEATURES		l	<u>.</u>		Al-
Color	No	No	No	No	No
Reverse video	Opt.	Std.	No	Opt.	No
Programmable brightness levels	2 opt.	No	2 std.	2 std.	No
Character and/or field blinking	Field std.	Std.	No	Both opt.	No
_				·	
Roll Paging	Std. 3/5 pages opt.	Opt.	No No	Up & down std. Std., no limit	Up std. —
CURSOR CONTROL Cursor positioning; Up, Down, Left,	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.	L, R
Right, Home, Return	No.	Std.	No	Opt.	No
Cursor blinking Addressable/readable cursor	No Std. (read opt.)	Std. Std.	Std., addressable	Std.	No
Addressable/readable cursor	οτα, (read opt.)	ota.	only	Jiu.	140
ORMAT CONTROL Protected format	Std.	Std.	Std.	Std.	_
					_
Format creation via keyboard	Std.	Std.	Std.	Std.	_
Format editing via keyboard	Std.	Std.	Std.	Std.	
Format storage	Std.	Std.	Std.	No limit	
Partial screen transmit	Std.	Std.	Std.	Std.	
Tabulation	Std.	Std.	Std.	Std.	_
EDIT FUNCTIONS	_				
Character insert/delete	Std.	Std.	Std.	Std.	Std.
Line insert/delete	Std.	Std.	Std.	Std.	No
Character erase	Std.	Std.	Std.	Std.	Std.
Line erase	Std.	Std.	Std.	Std.	No
Screen erase	Std.	Std.	Std.	Std.	No
Screen erase Character repeat	Std.	Std.	Std.	Std.	Std.
CEYBOARD PARAMETERS			Typewriter/		
	Typowritor	Typewriter	data entry	Variety	Teletype
Style	Typewriter	Typewriter			
Character/code set	ASCII	ASCII/EBCDIC	ASCII	Programmable	ASCII
Detachability	Std.	Std.	Std.	Opt.	Std.
Program function keys	24 on 16 keys	Opt.	None	12 std.	No
Cursor control keys	8 std.	6 std.	6 std.	5 std.	2 std.
Edit function keys	5 std.	5 std.	8 std.	7 std.	4 std.
Numeric keypad	Std.	No	Std.	Std.	No.
Hamelio Reypau	J. C.		5.0	J.u.	

Part 2:

Operator Features
Ancillary Features
Transmission Parameters

Transmission Features
Terminal Interface
Line Interface

VENDOR AND MODEL	Westinghouse Model 1625	Westinghouse Model 1630	Wiltek Model 500	Wiltek Wiltek II	Wintek Model B-R-B
OPERATOR FEATURES					
Numeric keylock	Std.	_	_	Std.	No
Audible alarm	Std.	No	Std.	Std.	No
Keylock Operator I.D. card reader	Opt.	– No	Std.	No No	No No
Light pen	No.	No	No	-	No
ANCILLARY DEVICES					
Cassette tape drive	RS-232 interface	No	No	No .	Single
Diskette drive (floppy disk)	Opt.	No Doffered interfere	No	Single	No No
Serial printer Print speed & print positions, cps	RS-232 interface	Buffered interface	Impact	Impact	No
Other devices	None	Interface for card reader	None	Card reader, disk, magnetic tape	_
TRANSMISSION PARAMETERS					
Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Technique	Async./sync.	Synchronous	Async./sync.	Async./sync.	Asynchronous
Communications protocol	ASCII	ASCII	ASCII/BSC	BSC/SDLC	ASCII
Code	ASCII 10/11	ASCII	ASCII	Programmable	ASCII 10/11
Unit code structure, bits/char. Speed, bits/second	50 to 9600	8 Up to 9600	8/10 1200 to 2400	Programmable Up to 9600	10/11 110 to 9600
Operator selectable speeds	Std.	—	-	—	12 std.
Format: character, line, or block	Char./block	Block only	Char./block	Char./block	Char. only
TRANSMISSION FEATURES Multipoint operation (pollable/addr.)	Opt.	Std.	Std.	Std.	Opt.
Auto answer	Opt.	Std.	Std.	Std.	Opt.
Auto call	_	-	_	-	Opt.
TERMINAL INTERFACE	RS-232 B/C, CCITT V.24	RS-232C	RS-232C	RS-232C	RS-232C
LINE INTERFACE					
External modem required	Yes	Yes	No	Yes	Yes
Integral modern	Opt.	No	Std.	Std.	Opt.
Integral acoustic coupler	No	No	No	No	Opt.
Vendor-supplied external modem	No	No	No	Opt.	Opt.
DIAGNOSTICS Self diagnostics	Yes	_	No	Yes	Yes
In line	Yes	_	No	No I	No
On line	No	_	No	Yes	No
Off line	Yes	_	No	Yes	Yes
PRICING (price range shows cost of basic unit and unit with all options)					
Lease price including maintenance:					
Display station, 1 year lease, \$/mo.		_	_	Contact vendor	_
Display station, 2 year lease, \$/mo.				for lease	_
Display station, 3 year lease, \$/mo. Serial printer, 1 year lease, \$/mo.	_	_		prices —	
Serial printer, 2 year lease, \$/mo.	_	_		_	
Serial printer, 3 year lease, \$/mo.	_	_	 _ _	_	_
Controller, 1 year lease, \$/mo.	_	_	_	_	
Controller, 2 year lease, \$/mo.		_	-	-	
Controller, 3 year lease, \$/mo. Purchase price:	_	_	-	_	_
Display station, \$	Contact vendor	Contact vendor	12,100	Contact vendor	8 75
Serial printer, \$	_	_		_	_
Controller, \$		_	-	-	_
Software, \$	_	_	-	-	
Quantity discounts available	_	_	_	_	Yes, with 10 units or more
AVAILABILITY Date of first production delivery	Ath atr 1076	3rd atr 1075			1/76
Date of first production delivery Display units installed to date	4th qtr. 1976	3rd qtr. 1975			1/76 30
Serviced by	 Westinghouse	 Westinghouse	Wiltek	 Wiltek	Wintek
No. of service locations		-	-	_	_
COMMENTS		Microprocessor- based unit uses Intel 8080 with up to 6K PROM	Includes two 50K- char. magnetic tape buffers		
		!			
	1				

Part 1:

Terminal Description Compatibility Programmability Display Organization Display Features Cursor Control

VENDOR AND MODEL	Wyle Series 8000 & 9000	Xerox Models BC 100 & BC 200	Zentec Model 9002	Zentec Model 9003
TERMINAL DESCRIPTION				
Processor control	Microprocessor	No	Microprocessor	Microprocessor
Memory range, bytes Stand-alone unit	Yes	-	Up to 16K	6K-65K
Local cluster arrangement	Tes	Yes -	Yes No	Yes Yes
Remote cluster arrangement	_		No	Yes
Max. no. of displays/controller	16; 32 (9000)	4	_	2
Max. no. of printers/controller	-	-	1 -	2
Max. no. of devices/controller Any mix of screen sizes/controller	16; 32 (9000)		_	6
Computer Interface	Std. (minicomputers)		I =	Opt.
Portable case	Std.	Std.	No	Yes, 75 lbs.
COMPATIBILITY IBM 3270/3275	Sed 0000!	 		V. 500
IBM 2260/2265	Std., 9000 only Std.	No No	Opt., no cost	Yes; BSC version
Teletype 33/35	No	Std.	No	Opt.
Teletype 40	No	No	-	Opt.
Other	No	Xerox	_	SDLC opt.
PROGRAMMABILITY Programmable via: User-created programs User-defined parameters Vendor-defined firmware User-defined firmware Vendor-supplied software	No No Series 9000 — No	No No No No No	Opt. No Yes Yes Opt.	Yes Yes Yes Yes Assembler, disk cataloguer
Software pricing	_	_	Extra cost	Extra cost
DISPLAY ORGANIZATION Display positions, chars./display Display arrangement, lines x chars./line Display area, h x w, inches Total displayable symbols Symbol formation	480/960/1920 12 × 40/80; 24 × 8 7 × 9 64 5 × 7 dot matrix	960/1600 24 × 40; 20 × 80 12 to 17 (diag.) 155 5 × 8 dot matrix	2000 25 × 80 8 × 11 128 7 × 9 dot matrix	1920 24 x 80 15-inch-diag. 128 7 x 9 dot matrix
DISPLAY FEATURES Color	No	No	No	No
Reverse video	Opt. 9000 only	No	Std.	Std.
Programmable brightness levels Character and/or field blinking	2 std., 9000 only Opt., 9000 only	Std. Std.	2 std. Std.	Std.
Roll	Opt., 9000 only	No	Std., up & down	Std., up & down
Paging	Opt., 9000 only	No		2 pages opt.
CURSOR CONTROL Cursor positioning; Up, Down, Left,	U, D, L, R, H	U, D, L, R, H	U, D, L, R, H, Rt.	U, D, L, R, H, Rt.
Right, Home, Return]-,-,-,	, , , , , , , , , , , , , , , , , , , 	0,0,2,,	0, 0, 2,,,
Cursor blinking Addressable/readable cursor	Opt., std. 9000 Std.	Std. Std., addressable only	Std. Std.	Std. Std.
FORMAT CONTROL		,		- Ctur
FORMAT CONTROL Protected format	Std.	Carl	CHI	6.4
Format creation via keyboard	Std.	Std.	Std. Std.	Std.
Format editing via keyboard	Std.	Std.	Std.	Std.
Format storage	Std.	Std.	Std.	1 std.
Partial screen transmit Tabulation	Std.	Std.	Std.	Opt.
rapuration	Std.	Std.	Std.	Std.
EDIT FUNCTIONS	1			
Character insert/delete	Std.	Std.	Std.	Opt.
Line insert/delete Character erase	Std., 9000 only	Std.	Std.	Std.
Line erase	Std. Std.	Std.	Std. Std.	Std. Std.
Screen erase	Std.	Std.	Std.	Std.
Character repeat	Std.	Std.	Std.	Std.
ZEVROARD BARAKETERS				
KEYBOARD PARAMETERS Style	Typewriter/data entry	Typewriter	Typowrites	Tum accusts - ::
Character/code set	ASCII	ASCII	Typewriter ASCII	Typewriter ASCII
Detachability	Std., 9000 only	Std.	Std.	Std.
Program function keys	12 std., 9000 only	Std.	5 std., plus 10 opt.	32 std.
Cursor control keys	5 std.	5 std.	6 std.	5 std.
Edit function keys Numeric keypad	8 std. Opt.	8 std. Opt.	8 std. Std.	5 std.
) Opti	J. G.C.	5 std.

Part 2:

Operator Features Ancillary Features Transmission Parameters

Transmission Features Terminal Interface Line Interfaces

VENDOR AND MODEL	Wyle Series 8000 & 9000	Xerox Models BC 100 & BC 200	Zentec Model 9002	Zentec Model 9003
OPERATOR FEATURES				
Numeric keylock	_	_	Opt.	Opt.
Audible alarm Kevlock	Opt., 9000 only	Std.	Std. Opt.	Std. Opt.
Operator I.D. card reader	-		No	No No
Light pen	_	_	No	NO
ANCILLARY DEVICES Cassette tape drive	Opt., 9000 only	No	Opt. interface	No
Diskette drive (floppy disk)	Opt., 9000 only	No	Opt. interface	1, 2 or 3 drives
Serial printer Print speed & print positions, cps	Impact	Opt.	Impact or interface 30/45/165 @ 132	Impact 30/45/165 @ 132
Other devices	None	None	None None	None
TRANSMISSION BARAMETERS				
TRANSMISSION PARAMETERS Mode	Half/full-duplex	Half/full-duplex	Half/full-duplex	Half/full-duplex
Technique	Async./Sync.	Async./sync.	Async./sync. opt.	Async./sync. opt.
Communications protocol Code	ASCII/BSC ASCII/EBCDIC	ASCII/BSC ASCII	ASCII/SDLC planned ASCII; others opt.	ASCII; BSC & SDLC or ASCII
Unit code structure, bits/char.	8/10	8/10	8/10/11	8/10/11
Speed, bits/second	1200 to 9600	300 to 9600	110 to 9600	110 to 9600
Operator selectable speeds Format: character, line, or block	- Block only	Char./block	– Char./block	– Char./block
TRANSMISSION FEATURES	,			
Multipoint operation (pollable/addr.)	Std.	Std.	Opt.	Opt.
Auto answer Auto call	Opt., 9000 only No	No No	No No	Opt. Opt.
TERMINAL INTERFACE	RS-232C	RS-232C	RS-232C	RS-232C
	110 2020	110 2020	1.0 2020	MI L-188 B/C
LINE INTERFACE				
External modem required	Yes	Yes	Yes	Yes
Integral modem Integral acoustic coupler	No No	Opt. Opt.	No Opt.	No No
Vendor-supplied external modem	No	No	No	No
DIAGNOSTICS				
Self diagnostics In line	No No	No No	Yes No	Yes No
On line	No	No No	No No	No
Off line	No	No	Yes	Yes
PRICING (price range shows cost of basic unit and unit with all options)				
Lease price including maintenance:				
Display station, 1 year lease, \$/mo.	Contact vendor	35-225		-
Display station, 2 year lease, \$/mo. Display station, 3 year lease, \$/mo.	for lease prices	- 28-115 (4-yr.)	_	
Serial printer, 1 year lease, \$/mo.	=		_	_
Serial printer, 2 year lease, \$/mo.	–	_	-	_
Serial printer, 3 year lease, \$/mo. Controller, 1 year lease, \$/mo.	_ _	_ 195-235	_	
Controller, 2 year lease, \$/mo.	_	_	_	_
Controller, 3 year lease, \$/mo. Purchase price:	_	163-196 (4-yr.)	_	_
Display station, \$	Contact vendor	3,800	3,485-6,400	4,000-8,000
Serial printer, \$	_	_	-	4,000-(basic)
Controller, \$ Software, \$		6,500	_	4,000 (basic) 300-3,000
Quantity discounts available	_	_	_	Yes
AVAILABILITY Date of first production delivery	1072: 1075 (0000)	1070: 1071	7/74	6/75
Display units installed to date	1972; 1975 (9 000) —	1970; 1971 Over 300	7/74 Over 200	6/75 153
Serviced by No. of service locations	Wyle or third party	Xerox	Zentec & third party 3	Zentec & third party
COMMENTS	Discounts available	Model BC 100 has	-	
COMMENTS	based on lease term &	smaller screen capacity.	Microprocessor-based unit with up to 16K	Microprocessor-based unit (Intel 8080) with
	number of units per	Leased units are avail-	bytes of memory con-	6K to 65K bytes of
	system; 9000 is micro- programmable	able only with the Xerox computers	sisting of ROM, PROM, and RAM	memory
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